

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

EDITORS

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EDITOR'S COMMENT

THE contributions that have been made during recent years to our knowledge of the physiology and pathology of the thyroid gland should serve as a stimulus and encourage ment for those who are inclined to feel pessimistic over the progress of medical science. Steinlin's review of the status of the goiter campaign in Switzerland (p 10) indicates how widely the influence of Marine's studies is being felt and how successfully the administration of jodine is affecting the development of gotter in a region where gotter has been endemic for many years Plummer and Boothby's report on the results obtained by the administration of Lugol's solu tion in exophthalmic goiter (p 10) marks a second chapter which Plummer has predicted will prove as important in the treatment of exophthalmic goiter as the prophylactic ad ministration of iodine is proving in the preven tion of simple gotter Mason (p 10) also adds a brief report on the value of Lugol's solution while Hyman and Kessel (p. 10) stre s the influence and importance of non specific measures particularly mental and physical rest in the treatment of exophthalmic goiter

Therapeutic measures for dealing with suppura tion in the lungs have received increasing atten tion of late both by reason of the development of the technique of bronchoscopy under the guidance of Chevalier Jackson and because of the helpful effect secured in some cases by the use of mer curochrome and gentian violet. The value of lipiodol in conjunction with the \ ray for the exact localization and determination of lung pathology a procedure frequently mentioned in French medical journals of late 18 as yet not defin itely determined. Three papers dealing with the problem of lung infection are reviewed in this month's issue of the Abstract the bron choscopic treatment of suppurative diseases of the lung by Moore (p 24) the surgical treatment of bronchiectasis by Archibald (p 24) and the combined chemotherapeutic and surgical treat ment of lung cavities by Geckler Lovelace Ran kin and Weigel (p 23) Other ab tracts dealing with different phases of this problem will appear in the near future

The problem of intracardiac surgery one that has always fascinated the imagination of experimental workers is discussed by Allen (p 25). The technique which he has developed for per forming intracardiac operations opens the way for further advances in this interesting if limited field Jonnesso's report of the results of treatment in six cases of angina pectoris (p. 19) indicates the possibility of the successful surgical treatment of this condition if carried out sufficiently early

BSTRACTS of a number of interesting papers devoted to gastro-intestinal surgery appear in this month sissue of the Journal From the diagnostic standpoint Friedenwald Gantt and Morrison's studies in fractional analy sis (D o) and Walton's discussion on the differ ential diagnosis of the urgical dyspepsias (p. 30) are worthy of note From the standpoint of technique Fraser and Dott's description of an aseptic method of intestinal anastomosis (p. 41) and Finsterer's di cussion of methods of inducing local anæsthesia in the abdomen (p. 46) should be mentioned. Sherren's paper on disease of the stomach and its surgical treatment (p 33) Haberer's discussion of the indications for surgical treatment in diseases of the stomach based on a review of 1 432 personal cases (p. 36) and Cheever's report on gastric carcinoma (p. 35) are helpful contributions from the standpoint of

Gynecological and obstetrical subjects are less prominent than ordinarily in this month a sawe of the Abstract but a few deserve special mention. Winter a report of the results of post operative radiation in carcinoma of the utrus (n 48) in the second gynecological chinic at huma is and Wintes a report of the results of Very therapy of carcinoma at the Ediangen gynecological chine (p 48) concern an important subject. Sols a report of the results of foreign protein therapy in puerperal septicemia (p 57) and Thai limits a report (p 52) of the results of insulin treatment of touc comuting of pregnancy will be noted with interest by the specialist in obstetrics

A number of other papers of particular interest in other fields of surgical practice should be men toned. Judd and Scholl's report of the results of surgical reatment of renal tuberculosis (p. 60). Defzell and Lowsley paper on diseases of the seminal vesicles (p. 62) and Sheas discussion of seminal vesicle involvement as a causative factor in arthritis (p. 62) will interest the genito unnary specialist and the internist.

INTERNATIONAL ABSTRACT OF SURGERY

JULY 1924

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Porter C A and Churchill E D Malignant Tumors of the Pa otid Gland with Analysis of a Case S g Gv cc & Obst 9 4 xxx 111 336

The authors believe it has recently been established that the mixed tumors are optichal in nature though there is still uncertainty regarding the origin of the epithelial cells giving rise to them. The usual occurse of a mixed tumor is relatively benign but unstances of a change from a slowly groung tumor of many years duration to a malignant growth are not infrequent.

Wetastass of maignant mared tumors takes place through the blood stream rather has to the regional humb nodes. In the authors opinion the characteristics of the jundroma are suggestive of basal cell caranoma or adenoid cystic epitheliona. Clin or in recently the mared tumors in encapsula or it recently the time tumors in encapsula or it is considered to the construction of the constr

There are relatively few reports of primary carcinomata of the sulvary glands which can be clearly distinguished from carcinomata arising in mixed tumors. The serrinous and medullary types are the two most frequently described. The growth is usually very hard and fused with the gland and it invades the cervical it imple nodes early. In further metastration analguant injured tumors it rarely metastration and the properties of the contraction of the control of the contraction of the control of the contraction of the control of the con-

The authors report a case of adenocarcinoma of the parotid region in which during the course of numer our streaments the preponderance of cell which had modergone differentiation to the basis-cell and hair matinx type caused confusion regarding the proper classification of the tumor The fundamentally malignant nature of the growth was not recognized until general metastases were formed Excision of

the tumor was followed by eleven recurrences neces stating many secondary operations during the past fourteen years. The \text{\colorage} ay and tadium bad been employed at intervals during the course of the disease. Emil C ROSTISSEX MD

Durante L The Operative Technique for Complete Excision of the Lymphatic Channels in Epithelioma of the Lower Lip (Techna della xe esa completa della re laft incha ni lep tehoma del labba i i a e) 4 k si i d ck 1023 vin

The lymphatic channels and glands which are commonly controlled in operations for epithelioma of the lip are the submental the submanilary and the carotid jugular group. These structures are found either in the subfa call areas of the neck or found either in the subfa call areas of the neck or devantable also est of the facts. Not sufficient constraints of the subject of the sub

r An areolar layer more or less rich in adipose

2 A lamellar structure made up of the superficial fascia which splits to envelop the platysma myoides 3 A connective tissue layer clo ely adherent to the posterior layer of the fasce.

3 A connective tissue layer clo ely adherent to the posterior layer of the fascia covering the platysma 4 Fascia colli

These four structural planes are furrowed with jumphatic channels and glands which in the presence of a cancerous change of the lip may easily become in wheel and serve as a route of transmission between the superficial and deep lymphatic glands. This superficial system of lymphatics is always dealt with by, the author in operations for malignancy of

It is known that the lymphatic system of the lower lip is derived from two distinct sources a

r

mucosal and a cutureous source. The submucous swatern communicates with the submaniliary swatern communicates with the submaniliary swatern communicates with the carot of jugular group on the ame suffered. The subcutaneous as stem of lymphatuse suppolie with the cuter portion of the Ip also communicate with the submaniliary lymph glands but the lymphatuses draining the median portion of the lip communicate with the submaniliary lymph gland is but the subfascial submental lymph gland that is the gland is in gibt even the anterior believe with the subfascial submental lymph gland that called the submaniliary lymphatus lymphatus called the submaniliary lymphatus lymphatus called the submaniliary lymphatus lymphatus called the submaniliary lymphatus
There are represented by histories of the manufactors when other histories of histories of the manufactors when other histories of histories of the end of the manufactors when his of the neck. Therefore a lateral subcutan ous chain of limphat can other path and left ail is of the neck. Therefore a lateral subcutan ous chain of limphat can on the might sube may communicate with the glands of the deep cervical system on the left sube by their circuitors worte and in structures such as the lp n which the mucosa and shin fue with each other the lymphatics of the mucosa communitae with those of the list with those of the right and the superficial with the

The clinical premises are as follows

I pithelioma of the lo er lip s tuated in the med an segment inval's first the lymphatic glands of the suprahyoid reg in

2 Fritheloma situate! laterally invades pri marily the ubmaxillary lymphatics

3 Lp theloma situated to the left of the median line may in ole by metastas a the lymphatics of the right side and viewersa.

4 Neoplastic glandular in ol ement is very fre

5 L mphatic invol ement may be present with

If the int m te relationship between the subfa cial and the suprafa cial lymphatic systems and the connection between these and the subcutaneous chains of the lateral cerucal reg in are borne in mind the following ob ervations can be readil exri inci.

t Following excision of an epithelioms of the lip with time at of the subfaccial glin lutar tructures recurrence of thi malignine, may divelop in the suprafase at 1 mph ties and thi glan is of the

s transoid reg on

2. Metastas 5 the imph 1 s max le mun fested 1 the superin all lateral cert cal nodes le fore it invol es th submental a d ubma illiny structures. Core u nith lecause of th omplete structures are superinted to the superinted structures and of the bld terul system dr 1 met havel p it is essent 1 t pe atting for m [grand; to 1 mil riake the compl 1 find al 1 mil 1 m ocunits 1 the let that the more lecon featurement of the structure is the superinted structure and of the structure is the superinted structure. The superinted structure is the superinted structure in the superinted structure is the superinted structure.

end of three years after operation

Surgeon) car	Ceres Per cer
Th rich	1865	12
B Uroth	1,07	24
Wn wrt	879	-76
I rtsch	1554	3 6
Woerner	1986	33
M in g	1347	44.5
Frich	%ું કે	60 1
Loos	1000	66
Stea er	20,1	
Serafini	1907	73
Ebel	908	No 1
Bondsd rff	8001	80 g
Sustru k	1011	- m i

Sistemak was able to report such a large percentage of cures because in all of his cases there was as pain taking and complete excision of the various lymphate as stems. The technique commonily employed does not take into considerat on the superficial or superfaced in high phastics. Whatever, the type of cultaneous incision the superficial lymphate is with a superficial with the cultaneous incision the superficial without the superficial without the superficial with surface with a structure is the in the substance of the reflects if their structures he in the substance of the reflects if their

The author's technique is as follows

The patient is placed as recumbent post on with the neck hyperetrie fold \(^1\) much to so of the skin is begun at the angle of the mandible \(^1\) come below the mand bull \(^1\) are the mand bull \(^1\) are the mandible \(^1\) come below the mand bull \(^1\) are the mand bull \(^1\) and below the mand bull \(^1\) and the superior border of the thyroid cartilage \(^1\) s million mission in site make on the opposite at \(^1\) The mission is then male on the opposite at \(^1\) The ample operative space \(^1\) It is found necessity to emove the superior kingling discrete finds the incusion may be catended down to the clavele. The culsarous structure is carefully \(^1\) descript from the male thying structure is carefully \(^1\) descript from the male thying

areolar to sue and the flap is reflected downward The four layers of tissues which contain channels an I glands-the subcutaneous areolar stratum the superf ci I fascia between whose anterior and posterior layer I es the platy sma the connictive tissue layer and the fascia colli-are dissected e bloc The dissection is begun by un ferm ing the skin t the extent of 1 cm beneath the mandible in order to include the entire lymphatic area. On the s des the excuson is I mited along the interior surface of the sternomastor! s that the external jugul r the sheath of which is often the site of metastatic Is mr h nodes can be exposed an i by incision of the ant nor sheath of the muscle and exposure of the po terior surface the carotid area is a spected In the substance of the structu e to be removed are often found term all n r flaments of the cervical tranch of the facial n rise The procedure tescribed th ref re troduces a tr assent p ralesis of the Ip an I chin but e en the or linary methods which are I so drastic may be fill well by this complication The operations co cluded by temoving the resected structure f om its base of attachment by mea s of an inci ion running parall I with the upper margin J MES & RECT M D of the thyroid cartilage

EYE

Mckee S II A Study of the Bacteriology of the Normal and Inflamed Conjuncti a with Special Reference to the Pre ence of the Streptococcus and Pneumococcus C dn M 4s J 94

XIV 216

McKee's conclu ions are as follows 1 The normal conjunctiva may harbor patho

genic organisms causing no symptoms 2 A major surgical operation should never be performed upon the eye without a previous careful examination of the lachrymal fluid for pathogenic

organisms 3 For the thorough examination of the normal

conjunctiva cultures are necessary

4 Examination by smear alone often gives nega tive findings in cases in which pathogenic organisms would be easily demonstrated b other bacterio log cal methods

Pathogenic micro orgin sms such as strep tococci and pneumococci are best demonstrated by the use of blood agar plates This method i simple and by means of it the presence of the streptococcus or pneumocorrus may be easily demonstrated in from twenty four to forty eight hours

THOMAS D ALL & M D

Jacks n E Practical Aspects of Irregular Astig mat m 1m J Oplik 9 4 3

One form of irregular astigmatism symmetrical aberration is of great practical importance as if lustrated by a case seen by Jackson When veved through the center of the pupil the posterior pole of the fundus of a myope with detached retini was seen best 1 ith a - 3 phere Through the periphery of a videly dilated pupil it was seen best without any lens. In a second case vi ion was improved by a -16D sphere When the pupil was dilated the di k and vessels were seen best without any lens or with a + 1D sphere There were no fundus changes indi cative of myopia. With the pup I dilated best vision was obtained; ith a +o 50 sphere. This was an extreme case of myonia due to nuclear changes

The seissors movement can be explained by the greater ref action of the cornea at one marg n of

th pupil than at the other

Ophth 9 4 3

The subjective symptoms of a regular a tigmatism are varied an I numerous These should be explained to the patient in order to relieve him from n iri VIRGIL W SCOTT M D

kress G H Cy ticercu of the litreou

C) sticercus of the vitreous 1 a rare cond tion only five cases having been eported in the United States Aress reports another case which was under hi observation from n early st ge until the eye was removed because of ser ous 1 1 locychtis. The main pathological features of the sectioned eye were inflammation and detachment of the retina round cell infiltration of the iris and secondary

glaucoma The bladder containing the parasite was discovered just behind the lens

VIEGIL WESCOTT M D

White L E An Anatomical and A Ray Study of the Optic Canal in Cases of Optic Nerve In Ot 1 Rh of & Lay gol 924 volvement 1

This study wa undertaken partially to substan tiate the assertions of Van der Hoeve but more es pecially to determine whether there is any relation ship between the size of the canal and the vulner ability of its contents Conclutions were drawn from the tabulated results of examinations of numerous skulls in which the size shape and position relative to pneumatization were noted and from roentgeno grams of the optic canals of all available cases of notic nerve involvement which were compared with the e of twenty five supposedly normal persons Evidence of di ease was looked for but was rarely found \ll \ ras work was done by one man with considerable experience

The position of the patient's head with the face downward shoul I be with the malar bone nose and lower jaw touching the plate and the central ray should be directed straight do n The diameter of the canal of 5 mm should be enlarged about in the roentgenogram. The conclusions arrived at

are as follows

The optic canal varies from 3 5 to 6 5 mm and the normal canal is practically 55 in diameter and usually round Extensive pneumatization about the canal 1 usually associated with narrowing. When the lesser wing above the canal is more extensively pneumatized than other regions the canal is flat tened on top If the region beneath the canal i also pneumatized it becomes oval while in rather rare instances where the bridge formed by the lateral root of the lesser 1 ing of the sphenoid is also pneumatized it assumes a some hat triangular shape Any irregularity in the contour of the canal from whitever cause produces diminution in its caliber and renders its contents more susceptible to infections from the sinuses surrounding it. It seems to be a fairly constant rule that the smaller the canal the more extensive the pneumatization Small canals may be round even though they are surrounded by pneumatic sinuses Therefore the shape while not all important usually indicates susceptibility to in fection

The films of the canal are often misinterpreted because of faulty pos tion. The image of the canal should al avs appear in the lover quadrant of the orbit Though the films of only about thirty pa tients with optic nerve involvement have been studied these indicate that the smaller the canal the greater the danger of permanent loss of vision and the greater the necessity for operation. The size of the canals is most valuable in making a differ ential diagnosis for large canals lead one to look elsewhere than in the accessory sinuses for the cause of the amblyopia

If future cases substantiate the findings it will mean that a canal of 4 mm or less in a case of severe ontic nerve involvement indicates the necessity for immediate ventilation of the posterior sinuses to prevent permanent atrophy unless some other de finite focus can be found A 45 mm canal gives greater leeway for study and investigation Optic atrophy is less to be feared A 5 mm canal would probably recover from almost any acute attack either spontaneously or under local treatment. Then if some focus of injection is found diseased tonsils or teeth for instance it should be removed as a preventive to recurrences

MANFORD R. WALTZ M D

Przibram II Givine Sieht to Animals Deprived of Functioning Fye Am J Oblik 924 3 8

Przibram reports the work done by students at his suggestion in restoring vision to animals de prived of functioning eyes Kammerer bred the blind proteus and by exposing it to red light or to light and darkness was able to develop large functioning eves

It was found that in low orders of certain verte brates eves may be transplanted to the back and after at first degenerating may regain sight. In rats and rabbits with normal behavior and reflexes the retina and optic nerve showed regeneration Cata ractous lenses have been removed from fish and from and replaced by fresh clear lenses

Linco Mescott M.D.

Ohly J II The Treatment of Intra Ocular For eign Bodies Am J Ophih 1024 18 vu 2 S

The method of removing foreign bodies depends upon their location and properties. While X ray examination is of the greatest help in local zing them other methods with oblique illumination, the ophthalmoscope and lit lamp must not be neglected. The history is not conclusive

Son magnetic bodies are best removed by for cens or hooks. In cases seen a few hours after the injury the fore gn body shoul I be remove I through the wound of entrance if it her behind the chary VIRGIL WESCOTT M D body

Finnell W. C. Lesions Following the Injection of Li ing Tuberci Racilli into the Carotid Artery Im J Oph & 924 35

Finnoss reports the results of injecting clump emulsions of I ving tubercle bacilli into the common caroti l'arters of rabbits. Lesions d'elope i in il cases Lut resulted more quickly a d were more se vere when I rge doses of varulent organisms were used Bovine bacilli were very rul nt. The ani mals died before the eye cond tion had run its course. The average incubation period wa six days

The first changes small pupil and iris hamor thase were de to irritation U sally four days after the inneulation the iris became thickened in a

triangular form very fine blood vessels became visible on the surface of the ridges and there was a serous exudate on the lens capsule at the pupillary margin The nodules appearing on the iris increased in size and remained vascular. In the severe cases a baziness of the cornea was noted a few days after the intis and continued until the entire corner be came opaque and vascular as in interstitial keratitis in man Conjunctivitis and eniscleritis were late manifestations Choroiditis was found in all cases in which the media were clear. In three animals it was possible to follow the process from inflamma tion to atrophy. In most of the cases there was a severe uvertis. Tuberculosis of the vessels was noted in only one case a tubercle was found in an extra ocular muscle VIRGIL WESCOTT M.D.

EAR

Bunch C C: Functional Hearing Tests in Normal Cases A Oll Rh | & Lary e | 1024 x 174

The author made a study of so-called normal hear ing in 164 persons selected from five groups of uni

versity students

The Rinne, the Weber the bone conduction spoken and whispered voice the upper I mit for air and bone conduction with the monochord and the audiometer tests were made in every case The con clusion drawn is that the majority of persons have an auditory defect of some type. The decrease in acusty most frequently found is for tones between 2 500 and 3 100 d v In more advanced cases this defect expands to include the tones from 1 000 to 4000 d v often without apparent effect upon the upper limit of tonality There is a distinct correlation between this defect the loss of acuity for the whispered voice and a decrease in perception time by bone conduction Seventy three per cent of the persons tested had decreased bone conduct on and in 56 per cent this was greater than three seconds

The upper limit of audibility is well under 25 000 d v Determinations made with the monochord showed a higher correlation with the other clinical tests than did those made with the Calton whistle and the koen g cylinders

JAMES C BE SWELL, M D

Dupuy H Sixth Nerve Paralysis in Acute Otitis Media and It Complications S is M J 10 4 R H 213

Dupus reports a case of sixth nerve involvement origin ting from a path genic cause not stressed by Gradenigo The condit; n was transmitte I along a d fferent anatomical pathway

The patient was a boy 12 years of ag who de veloped an acute otitis media which rut tured one we k later and was f llowe I by a profuse otorrhora Three weeks after a mustoil ctomy the pate at was d smis ed from the servi e with his wound healed Two days after his discharge he was re admitted to the hospital suffering with severe hemicranis nausea and vomiting The urine showed a few by aline and granular casts. The white blood count was 13 650. Two days later he was semicomatose and had slight convulsive movements. His pulse continued slow.

By cramotomy the brain was exposed over the tegmen antia and tympan. The dura over the whole temporosphenoidal lobe sppeared healthy and without the sightest sign of stalk. An incision in the direction of the apex of the petrous bone directed inward and forward brought for a guidoff of particles and forward brought for a guidoff of the particles of the petrous bone ditraction of the particles of the petrous bone dispension of the particles of the petrous bone of the particles of the petrous brought of the second of the petrous brought of the petrous petrous petrous second of the petrous petrous brought of the petrous pet

the cavity with gauze strips
The patient regained consciousness before leaving
the operating room. The next morning his mental
state was excellent and his pulse oscillated between
52 and 80. The packs were removed on the second
day and the patient gradually recovered. The in
fection was due to staphylococci.

JAMES C BR SWELL M D

Torok B The Treatment of Postoperative Cavities of the Mastoid Process with Rubber Balloons A O! Rh not & La yagol 9 4 xxxx 85

Because of the long tedious and panful after treatment following a radical mastord operation experiments were made in 1932 with rubber ballooms instead of packing in the treatment of the would like experiment of the contract of the contract of the balloops are soft and plaible and when inflated in a cavity conform perfectly to its shape and adhere everywhere to its walls

After the operation the casty is carefully cleansed and all splinters of bone are remove! Stackes plastic flap operation is done. The flap is made very thin so that it will easily conform to the walls of the bony cavity. The sutures are removed on the fourth day. On the fifth day the packing is removed.

and the first rubber balloon inserted

A small piece of gauze is placed loosely in the tympanum and the sterilized folded balloon anoint ed with gly cerine is pushed into the calify by means of forceps. The rubber tube of the balloon is then connected with a Record syringe carefully inflated until the balloon fills the entire cavity loosely and then grasped with an attery clamp. After this has been done a bandage is applied. The next day the balloon is removed and the cavity cleansed with normal saline solution. In most cases the balloon is reintroduced it is left out for a day only when there is a great deal of secretion. After the balloon has been inserted for six or eight consecutive days there is a well formed cavity with white smooth walls and signs o beginning epithelization. The cavity is then left open the secretion being removed daily by gently irrigating it with saline solution and dusting it with boric acid. The cavity is never cleansed with gruze as this destroys the new epithelium

The author has employed this procedure for both chronic and acute mastoiditis

TAMES C BRASWELL M D

Emerson F P The Causes of Persistent Otor rhæa After a Simple Mastoidectomy An Oi l Rh ol & La y gol 1924 xxxiii 214

From the patient's point of view persistent ofor near following a mistoid operation means an un successful result. The surgeon feels or should feel that there has been some fault in his operative technique or dressing. The cruses of a persistent otorrhera are classified by the author as follows I Jack of surgical judgment in the after-care

2 Too early removal of the mastoid cortex be fore infection has been limited by a leucocytic bar ner. This was more frequent before the days of the \text{\text{ray}} than at present. Rarely is it necessary to in terfere surgically before a week from the time of an early incision of the membrana tymona.

3 Incomplete exenteration especially of the deep layer of posterior canal cells

4 Too active surgery in the region of the aditus which delays the walling off of the middle ear and exposes the mastoid cavity to re infection
5 Failure to recognize the origin of the infection

such as infection of the nasal sinuses Re infection of the mastoid may occur from such sources

6 Arrest of tissue repair due to poor resistance of the patient

7 Osteomalacia

8 General systemic conditions due to syphilis or tuberculosis JAMES C BEASWELL M D

NOSE AND SINUSES

Simpson II L A Method of Holding the Septat Membranes in Apposition After a Submucous Resection Without the Use of Packing Description and Demonstrat on of the Instruments and the Method of Use J Mich for Slate M Sec 914 xx 1 64

Simpson presents a method for holding the septal membranes in apposition after a submucous opera tior by transfuring the membranes in front and then further back with a straight needle. The illustrations accompanying the article show the technique employed

There is a No a straight needle which is oval on cross section and sharp only at the point. An introducer is shown into which the needle fish. There is also a grooved and forked direction which guides the needle after the first transfision and turns the muccus membrare at its tail to an obtain angle with the longitudinal diameter of the needle so that the needle point comes out on the side of its in sertion. The instructions for accomplishing this are stollows.

When the point is slightly engaged in the op pos te membrane (first transfixion) the needle introducer is placed over the eye end with the thumb and inners of the right hand the grooved forked director

held in the left hand is passed along the septum in the same paris from which the needle started. The turned and forked end is passed beyond the end of the needle which is distinctly felt through the mucosa, and slightly withdrawn until the angulation at the fork is engaged over the submerged point SI ght opposing lateral p essure a made het een the distal ends of the director and introducer held in the two hands. The proximal or handle ends are now brou ht nearly t a p rallel and both are gently swung over just beyond the median plane of the no e and the needle is pushed through. This last move directs the point b tyeen the po terior seem at of the resected bony septum and the middle to binate and back along the side from which it started thus completing the transfi ion The needle 1 left in for four days

The advantages claimed for the procedure are () greatly reduced postoperative bleeding (2) practically complete elimination of pain and discomfort following the operation (3) elimination of the possibility of occlosion of the snus openings by engogement and cedema of the soft pr to the lateral nasal wall and (4) reduction of the chine of car complications.

Pollock H L Intras pt 1 Impl nt t n in A tr phic Rhinitis 4 Oi 1 Rh 1 & L y g I

In the treatment of atr phic rb must he author uses implants from the nasal apert 1 cartialge of a donor. An inc s on is made in the micoperichon drums of the speptim and the membrane carefully elevated care being taken not to the affine membrane cartialge. The philosophia of the speptim and the membrane actifiage transplint is as all ge as possible and is brought into contact with as much of the elevated membra e and asptim as possible in order to insure proper nourishm in The incia in closed with a small suture. It is preferable to operate upon only wait two or the emonths before operating upon the opport as when the opport is all the opport and the opport

In ca es which have be n under observat on for three years the implants a e still of appro imately the same use as when first implant d

J IES C B S IL M D

G ch t E and W hlhu t G Intabuc 1
Roents nography of th Sphen idal Sinu
and Ethim d l Gells (R d g ph
phén d t d llul than d les p l d
p tf d b l) P dd P 9 4 T

The authors d cribe th ir app ratu for intra buccal entering graphy which they carry out under local annesthes. This method pe mits e annua t on of the sella turcica the sphenoid sinus with the ju taposed ethinoid the septum a d the turb nates.

The bas il r part of the occuput the livus nd the ante r part f the atla ppear behind the

sphenoidal sinus. A clear view of the ethmoidal

The value of such a method of observation is evident at reveals the det ils of pathological changes in the different parts and the topographical relationships prior to operation. WA BERN AN

PHARYNX

MacCready P B and Crowe S J Tube culo is of the Ton ii nd Adenoids A Clinical and Ro ntg n Ray Study of Fity C Ob rv d for Five Years Aft r Op ration Am J D Ch ld o

MacCready and Crowe discuss the subject of tuberculosis of the tonsils and adenoids from the standpo nt of the h tological examination of these structures after the r removal in a series of 3 26 cases. This rout no e amination resulted in the discovery f tuberculous tons is or adenoids in 128 cases Eighty five patients h d tuberculous gland of the ne k a proved by microscop c examinati n of an exci ed gland but in only forty six of these w s it no sible to demonstrate an as ociated tuber culo is of the to sil or a lenoids. In n netv two there were no g neral or local m n festations of tuberculosis The last group mentioned applied for treatment on acco at of d charging eas frequent colds or attacks of ton llts a tube culou lesso wa not suspected unt I the excised t usils or ad no ds ere examin d m cro cop cally

In order to dete mine the ultimate result in cas a of apparently prim ry t berculosis if the lymph ad nod ti ue in the throat the autho s mad a cl n cal and roentgen y study of fifty such cases to the here been unde observation for five year sor long r and ten for at least two years. In this is tig ton answers to the following qui ton were

r Will these pat ents ultim t ly develop clinical e ridence of tuberculosis in the rincal or med a tinal glands in the lun s or els where in the body?

2 When t bercles a d covered in th tonsil on histolo lexamin ton and no chincal manif ta it no of the disease ree ident on physic lexaminati should enot fy the prit of the child or the piet thims If if he is no lit?

3 Is it necess ry to thiraw the child f om send to improve the ge eral physical condition and to deducate the patient to conform to the rule f r cove y form tube los

4 Does the d covery th ugh h stological e am nation of tubercles n th t ns l or ade oids nd cate that the already a widesp d d tribution of tub cle bacilli or may we assume that the nfecti n local and sn it p oduces no local sympt m is of n importance and may be irrored?

5 Is the a y roentgen ray evidence of tuber c losis in the lungs or th med at nal glands? If suspiciou les ns e found do they p g es or et ogress during a five year period of obs ryation?

6 Has the use of ether and thesia been deter mined?

Do children with a positive reaction to the tuberculin test at their first examination prior to operation and in whom tuberculous tonsils or ade noids are found when the excised to sues are examined hi tologically have a negative reaction at any time subsequent to the operation?

The postoperati e observations may be sum marized as follows

Tuberculosis of the cervical lymph glands developed in only two patients eighteen and three months respectively after operation

2 Tuberculos s of the mediastinal lymph gland as determined by means of the roentgen ray de veloped in three patients five years three years and six months respectively after the operation

Tuberculosis of the lungs diagnosed by means of the roentgen ray developed in five patients two years after the operation. In only one was there chinical evidence of infection

4 Tuberculosis of the bones and joints developed in two patients one and one half and four and one

half years after the operation

5 In ten of twenty two cases followed no roent genological or clinical evidence of a mediastinal or lu g lesion has been found during fi e years of post operative observation. In si cases the enlargement of the medi stimal glands or the evidence of a lung lesion shown in roentgenograms taken soon after tonsillectomy has entirely disappea ed remaining si cases the roentgenogram indicate that the lesions in the chest have progres ed but in none of them has there been fever or cough or other ev dence of clin cal tuberculosis

6 Latent tube culous infection of the tonsils adenoids or cervical or mediastinal glands is not a contra indication to the use of eth Tuberculous infect on of the tons is and

adeno ds disco ered afte oper tion of little sig mificance

8 Tuberculosis of the tonsil usually a bo ine bacillus infection. This conclusion is ba ed on the age incidence (over 50 per cent of the subjects were less than 10 ears of age) the frequency of in volvement of the cervical and mediast nal lymph glands the str kingly low incidence of pulmonary intestinal or other complications during the five to ten year period of postone ative observation, and the growth appear ace and excelle t general physical condit on of these children in pite of the roentgen ray e idence of tube culosis of the medias tinum. It is possible that such an a feet in of the lymphadeno d'tissue in the thro t if ot complicated by frequent secondary infection is of alue f om the point of view of immun to

9 When tubercles are found n the tons I on histological e am nation the infect on is already widespread in the cervical and me i t nal glands and probably also in the mesenteric gla ds

10 In such cases the remo al of the tons is and adenoids is of value because it reduces the secondary

infection, but there is no evidence that operation on the throat will remove the only tuberculous focus in the body

11 Tuberculosis of the tonsils or adenoids is never recognizable from the gross appearance before opera tion unless there are superficial ulcerations second ary to an open pulmonary lesion. When the lesion is discovered microscopically it is probably advis able not to alarm the patient's family to stigmatize the patient as tuberculous or seriously to interfere with his ordinary routine duties, since the majority of such subjects will probably never have clinical symptoms of the d sease Orm M ROLL M.D.

Lewis E R Fundamental Considerations Under lying Roentgen Therapy of Tonsils A Rh I & La gol Q21 XX

Let us is of the opinion that some of the arguments favoring roentgen ray therapy of tonsils are mis leading and dangerous as the knowledge of some practitioners and of patients relative to physiology is not sufficient to protect them against misconceptions

The object of \ ray treatment is the destruction of Is mphoid to sue. In the author's opinion it causes destruction of surrounding tissue and of the lym phatic structures below and beneath the tonsil

Large size of the tonsil does not necessarily in dicate disease often apparently normal tonsils are large. The tonsil serves as a protector against in fection in the same manner as the deeper cervical lymphatics and its destruction in the absence of definite evidence of disease 1 unwarranted Ire quently the tissue becomes enlarged to take care of a temporary infection

The employment of such a poverful agent as the ray by those unfamiliar with the physiological and pathological fundamentals of the area in which they are working is dangerous

JAMES C BRASWELL M D

NECK

Christopher F The Surgical Treatment of Later al Cerv cat F tulæ S g G3 ec & Ob t

The author calls attention to the important v ork of Wenglovski on the subject vhich was published in 1912 an I has been frequently overlooked by recent investigators. The work has brought into discard the branch ogenic theory of origin of lateral cer vical fistulæ In his in estigation of median and lateral cervical fistulæ Wenglowski studied seventy eight embryos ranging in length f om 2 to 40 mm Serial sections were made of these and from the sections war plates w re made which vere bult up to form large wax models Serial sections were made also of 147 ch ld and fifty nine adult cadavers In addition Wenglowski studied twenty-one cases of neck fistulæ or cysts Among his conclusions were the following

1 The b anchial clefts or grooves in man are not open

carotid

2 The branchial apparatus cannot leave rem

nants in the neck below the hyoid

The thymus originates from the third pharyn geal pouch in the form of a long canal running ob liquely from the lateral pharyngeal wall to the sternum where the characteristic thymus substance

hegans to develop A The vestiges of the thymic duct may change

into a lateral cervical fistula or cyst The lateral thyroid lobes also have a short

canal which disappears early It is possible that like the thymic duct this canal also may persist and form fistulæ and cysts

The fistulæ may be so large that crumbs of bread

etc. may pass through them from the mouth At tempts at treatment by the injection of chemicals and by electrolysis have not been successful Radical surgical extirpation is the only sure metho i of effecting a cure

The various operative procedures are described in detail and shown by illustrations. The art cle is concluded with the report of a case operated on successfully by the von Hacker method and with a list of the more important articles on lateral

cervical fistulæ Royster H A Tum rs of the Ca otid Body So th

M J 1024

Royster reports a case in which a carotid tumor that had been present for several years was removed and the common carotid artery and both of its divisions were ligated. There has been no recurrence in more than three years. The pathological diagnos s was perithelioma. The common carotid ar

tery ran through the tumor The carotid body has been known since 1743 when it was first described by you Haller In 1862 Luschka noted its constant occurrence and first described its microscopic appearance. Riegner in 1880 was the first to remove a tumor of the gland and to call attention to the malignant tendency of such growths Up to 1022 more than ninety cases had been reported. In spite of this the et ology hist logy and symptoms are still more or less

obscure The function of the carotid gland is not known Its nuce will kill a rabbit in a few mi utes and small doses will depress the vascular sy tem Bilateral removal of the gland has caused glycosuma and fatal cachezia Undoubtedly it belongs to the sympa

thetic ganglia As far as is known the diseases consist only in the formation of tumo s peculiar in structure and uniform in type. The neoplesms must be regarded as ben gn as they re encapsulated and of slow growth and do not metastasi e Recur ences however are not uncommon Primary sarcoma and carcinoma are occasionally seen Pathological interest ce ters around the specific tumor cells the d n at on of which is st ll a matter of dispute

Pre-operative diagnosis of turn of the carotid body is rare. The following summary of the signs

given by Klose in a recent article emphasizes the points essential for the diagnosis I Location at the hifurcation of the common

2 Good lateral mobility with limited vertical mobility

Ovoid form a superficially uneven surface and a firm elastic consistency

4 Expansile pulsation and a systolic bruit both of which disappear after compression of the common caroted

5 Anterior arching of the wall of the pharent and paralysis of the vocal cord

6 Occasional narrowing of the pupil on the dis ease I side

7 Slow growth and protracted duration Absence of pain on palpat on

According to Cohn the conditions to be differen trated from carotid tumors are lymphosarcoma me tastatic carcinoma of the lymphatic glands area rism gumma tuberculous cervical glands and aber

rant thyr d In the t catment early and complete removal even at the expense of the large vessels seems ad usable. The operation may be done in two stages according to Halsted's plan by first I gating the common carotid artery and then waiting fo several days before extirpating the growth. To date no case treated successfully by med cation or rad atom CLAYTON F AND EWS M D has been recorded

Wood C G R AN te on the Directoscope J La vne 1 501 1 024 7 71 4

The directoscope is an instrument designed by Hashinger of Vienna for the direct examination of the larynx It was introduced about a year ago In its use the antenor surfaces of the vert bral bod ies on a level with the posterior surface of the enco d cartilage in the hypopharynx are employed as a fixed point for counter pressure to expose the larynx by pressing for and the base of the tongue

The in trument may be employed under cocaine anæsthesia and ith the patient in the sitting posi t on and can be so fi ed in place that both of the examiner s hands a e left entirely free It is a simple instrument which is portable compact and moderate in price. It is made by Peiner of Vienna and costs in Vienna about £7

In the presence of post cricoid growth its use is WILLIAM B STARK M D contra and cated

The Diagnosis Differenti 1 Diag Spencer F R nosis and Progno is of Laryngeal Tube culosis Ot ! Rh ! & Lo ymg ! Q24 XXXI

n J B The Electrocautery in the Treatment of Tube culosis A Oil Rh | b La yntol

9 4 XX Spencer states that primary laryngeal tubercu

losis is so ra e that it is scarcely worth consideration The subacute second ry type is more frequent than the scute and under prop r treatment for the pulmonary d laryngeal d sease will usually pass into the chromic stage. In such cases there is hoarse ness and the posterior wall of the larynx shows moderate involvement.

The chronic type which is the most common is the most common is the most common with a decided tendency toward fibrosis. The patient may complain of a dry throat and hoarseness and the disease may show little tendency to extend to other parts of the lary may be a support to the common tendency to extend to other parts of the lary may be a support to the common tendency ten

tenency to extend in outer parts of the large as Shight haskinness of the voice is one of the very early symptoms. The disease is not continuously process is easured with greater recovery of the continuously of changes. With greater recovery of the continuously protein a second of the continuously the continuously of the defense may be an early symptom but as a rule of curs lite.

The different parts of the larynx are usually in volved in the following order (1) the arytenoids (2) the interarytenoid region (3) the vocal cords (4) the ventineular bands (5) the epiglotis

Grees states that the electrocautery relieves pain effects a cure and is suitable for almost any type of leason. No attempt is made to remove all of the diseased tissue as in cases of malignant growths the purpose being rather to stimulate the formation of new blood vessels with later development of scar trees.

The chief advantage of the use of the electro cautery is that it gives a hopeful prospect of healing the lesion and restoring the natural voice. It is not indicated in late stages of the disease when there is yery extensive involvement of the chest

In the use of the cautery Green follows the method of Wood The Intyrus is nasthetated with an applicator dupped in cocaine flakes. Three applies a timerals of several minutes. Ut cerations require superficial cauternation with a faule Infiliations except within the laryan proper require needle punctures it is best to make only the co-flowing punctures at one sitting. Following the co-flowing punctures at one sitting. Following the co-flowing punctures at one sitting. Following the co-flowing that the co-flowing the solutely site of the frequent intervals for several days following the use of the cautery seems to lessen the resettion. Justice C Basyswix LMD

Mackenty J E The Operative Treatment of Cancer of the Larynx J La y gol & Ol 1 1924 x 11 67

The author divides the surgical period in cases of cancer of the larynx into three stages the preparation the operation and the after treatment

The p epa ison During the week before operation three colon rigations are given at two-day intervals. The first one is preceded by castor oil. The patient should come to operation with an empty and clean colon. During this week the det should be low in protein.

The operation A combination of local and general anasthesia is preferable There is a distinct advan

tage in laying bare the larynx and the first and second tracheal rings under local anxisthesia

The T incision is used The dissection is carried backward until the larynx and traches are skeleton ized. When hamostasis is complete and all vessels are tied a general anæsthetic is administered trachea is cut across just below the cricoid or lower if necessary care being taken that no blood enters the lumen of the tube. One or two drops of to per cent cocaine injected between two rings in the tra chea before it is divided will allay cough. The larynx is lifted forward and the posterior wall of the trachea is incised down to the & ophageal wall. A rubber tube which fits snugly into the tracheal lumen is inserted into the traches to a depth of about 2 in This acts as a tracheal extension turns back the blood and enables the anasthetist to continue the anæsthesia without being in the way

The laryax is separated from the resophagus from below upward to a point behind the arytenoids. It is then allowed to fall back into position and the thyrobyoid membrane is divided. In this manner an opening into the hypopharynx is made just below the attachment of the epiglottis Before this is done the anæsthetist sucks out all the secretion from the mouth and nasal cavity and paints the cavities with a 2 per cent solution of mercurochrome. The edges of the opening in the thyrohyoid membrane are grasped and held apart A yard of folded gauze 2 in Ride is packed into the hypophary nx and upward until it fills the hypopharyny the pharyny and the mouth At this point a careful inspection is made of the growth If it is found entirely intrinsic the larynx is removed by cutting as closely as possible to the superior border of the thyroid cartilage. The opening thus made into the hypopharyny is small and lends itself better to successful repair. If the di ease has approached the top of the laryngeal box or has involved the arytenoid more tissue is sacri ficed even to the removal of the anterior hypo pharyngeal wall adherent to the posterior surface of the lars nx

Just before the last stitch is tied in the closure of the bypopchary and the ansethents remove et begar packing through the mouth and again cleanes the pharyns and mouth by suction and paints them with a solution of mercurochrome. A feeding tibe of a size which all pass through the nore subout undur pressure is then introduced through the more opposite. When it is point appears in the esspoharies does not be suffered to the cosponary to a depth of 6 or 8 in. The point of earl from the nose is carefully marked and the tube secured to the face.

The last stitch is then tied. If the amount of tissue permits it a second layer of stitches is placed over the first in the hypopharyngeal closure. No it plain gut is used.

The trachea is anchored to the skin of the neck by two or three mattress sutures passed around a ring brought out about 1 in or more from the edge of the wound and tied on small perforated lead disks. These steady the tracheal stump in the wound and relieve the stra n upon the stitches which are to unite the skin edges with the mucous membrane of the trachea It is essential to obtain a primary union at the intersection of the two lines of the T

After treatment The drains are left in post on for from five to seven days if poss ble Cleansing of the wound is begun about the third day A suction apparatus is attached to one end of the double tube in each drain and saline solution gently i troduced through the other end. The flo v is continued until the yound is clean Provision should be made for ample drainage. Any well balanced diet which can be reduced to a fluid or semi sold state m y be JAM S C BRASWELL M D gwen

Steinlin The Status of the Goite Campaign in Switzerland (St d de Kr plb kaempf g dr 5 hw) Schu Zt ch f G dh 1 pff 19 3 456

The systematic campaign ag in t go ter can be successful only when a regular supply of indine is made available to all Ind ne is necessary for life it is contained and depos ted in small amounts in an album nous compound in the thyroid gland and is p esent in st ll smaller amounts in other organ plays a ery d stinct rôle in the body economy In regions where goiter is common the f odstuffs and air are deficient in jodine and this defi i nev causes a hypofunction of the ther d and pos ibly also of other plands. The d ficiency can be remedied by

g v ng 1 dine in tablet fo m or adding it to the food An od ed s d um chloride is made which con tanso 5 gm of todine p 100 kgm If the daily con sumi tion of salt is calculated as 10 gm only o 5 mgm of 101 ne s taken which is far below the maximal dose

The health author ties in the captons of St. Gall and Appenzell report good results from the use of this iod ed salt. Ten cantons and five half cantons in Swit erland are us no the cooking salt prophylaxis only nine cantons and one half canton do not use it and of th se only two or three may be considered as have g a low nc d nce f go ter

The results of the sod um chloride tree tment will b n tie d chiefly in future g ner ti ns G it r C mmi sion recommends the administration to school children of so-called school tablets, one a week for a year and then one from eight to twelve times a year duri g th following yea s This treat ent caus s the d appea anc of sting g ter Stat sti s b ed upon 44 500 sch 1 ch ld en in ment caus s the d appea and of

the c nton of St Gall showed that only 6 4 per cent were free from go ter 31 7 per cent had a palpable thyro d gland 30 8 p c nt had a soft st uma prenthdanodulrstruma nd 6 gp cent had a well-defined goiter

The author believes that with an ine get c cam pagn thy dise se an endemi affl ton can be w ped out in Switzerland While there is also the possibility that the number of cases of so called Base lows d's e will b nerea ed m what a n

non go trous regions Basedo v a disease which is curable does not compare in importance with hypothyreosis cret nism and endem c deaf mutism now prevalent The latter have been respons ble also for many cases of gotter heart. In Basedon a disease sodized calcium chloride is contra indicated. In the author's op nion the sale of iodine preparations

should be restricted to doctors prescriptions
In the discussion of this paper Silberschmittre ported the good results that followed the treatment of goster over a period of years in a technical school for women Chocolate tablets contain ng 5 mgm of a d ne were given girls between 15 and 21 years of age Soft gotters disappeared but Silberschmidt warned against drawing conclusions too early

Hyman H T and Kessel L Studies of Exoph thalmic Golter and the Involuntary Nervo System Y The Course of the Subjective and Objective Manifestat ons in Fifty Unselected Patients Observ d O a Period of Two Years in Wh m No Specific Therapeutic Measures Were Instituted (Spontaneous Cou se) 1 ch 5 g 9 4

The cases reviewed showed a marked p ogressive tendency toward amelioration of the objective many festations of exophthalmic goiter a gain in weight which compared favorably with that in cases given specific therapy and in the first year a p ogressive decrease in the basal metabolism Subjectively recovery was not complete in the

sense facure as there was persi tence of some of the symptoms However the latter did not interfere with economic rest tuti in and severe incapicitating exacerbat ons became infrequent

ARTHUR L SCHR LR M D

Ma on E H Th U e of Lug 1s Solution in the Tr atment of Exophth Imi G iter C d M A J 024 X Y 2 0

The remarkable results recently obtained with Lugol's solut on (dine s per cent potassium iodid 10 per cent) in exophthalmic goiter favor the con tention that Graves disease is an intoxicate n with an abnormally formed chemical complex which i possibly an imperfectly iode ed thyroxim molecule. The introduction of od e into the system tends to enable the thyrod gland to manufacture the thyroxin comple norm lly stopping or at le st decreasing the secretion of an abn rmal product According to this theory Grave disease is ? dvsthyroidism

By the u e of Lugol's solution in true cases of e ophthalm c gotter the pulse rate and basal metab olism are lowered to normal n a very few days This improved stat an be m intained with sm ll doses The e ophth lmos disappear very slowl but ther sa tendency fo the yeball t recede with the decreasing puls te It is not vet known whether a compl t cure can be obtained with this treatment ARTHUR L SHREFFI & M D

Plummer H S and Boothby W M The Value of ledine in Exophthalmic Golter J Ious St to M Soc 19 4 x11 66

A preliminary report of the value of iodine in the treatment of exophthalmic goiter was made by Plummer at the meeting of the Association of

American Physicians in June 1923

Liquor iodi compositus or Lugol's solution was used as the rodine preparation because it is an aqueous solution of rodine (5 per cent) and potassium rodide (10 per cent) and therefore provides a large amount of 10d ne loosely combined with potassium It has been found that on the average the optimal dose is to drops of Lugol's solution well diluted with water and followed by half a glass of water Cer tain patients who did not react to 5 drops re acted to 10 drops Some of the most rap d reactions were observed when to drops were given three times a day At the present time the routine do e in the average moderately se ere ca e 1 10 drops once or twice daily When there i a critical gastro intestinal of mental cris: this amount is given three or four times a day for a few days and then once or twice a day If the drug is not tolerated when administered by mouth it is given in similar doses by rectum rectal administration however has been found necessary for a few days only for patients 11th severe gastro intestinal on es and con tant nausea and comiting. As soon as the comiting is controlled the solution is given by mouth

Ten cases are reported in detail. In one case four metabol c tests made during July and August ranged between +40 and +20 per cent and t o l ga tions vere done but Lugol's solution was not em ployed After three months rest at home following the ligations the patient returned to the Clinic with the basal metabolic rate on three ob ervations dur ing the first week ranging between +60 and +62 per cent Lugol's solution vas then begun to drops being given three times a day. On the 1xth day after the todine was begun the basal metabolic rate was +39 on the ninth day 36 on the +thirteenth day +14 and on the s tree th day +0 Thyroidec tomy was then performed with entire safety

A conservative estimate of the number of patients with exophthalmic goiter who have been treated with Lugol's solution at the Mayo Chinic is 600 to patient with unquestioned exophthalmic go ter has been made worse by the Lugal a solut on On October to a count was made f the patients then in the ho pital under treatment for goiter in o der to estimate the relative fr qu cy of a beneficial effect from the admini tration of L gol's soluti n There were tventy patients with adenomat us goite with or without hyperthy olds in who lid not receive Lugol's solution Fiv patient poss bly having adenomatous goiter with hyp rihv oldi m were giv n Lugol's solution b cause e ophthalmic gotter coul i not be definitely excluded of these one was benefited definitely and thre slightly. In one ca e the data were not sufficient for an opin on Of fifty six patients with definite exophthalmic goiter

who received Lugol's solution thirteen did not have a sufficient number of metabolism tests to warrant an opinion Of the forty three others sixteen (37 per cent) showed marked and prompt improvement after the administration of Lugol's solution fourteen (32 per cent) were definitely benefited and eleven (26 per cent) benefited only slightly as after hospital ization and rest and only two (5 per cent) were not affected From this survey it seems probable that approximately two third of the patients with exoph thalmic goiter will be greatly benefited one fourth will be slightly benefited and the remainder or about one patient in twent) will not be demonstra bly benefited. The probability that the iodine will do harm 1 less than 1 600

As has been reported by Pemberton the mor tahty rate in 102 following surgical procedures for exophthalmic goiter had been reduced at the Mayo Clinic to 17 per cent on the basi of the number of patients operated upon and to le s than I per cent on the basis of the number of operations. In the main Cale was correct when he attributed this low mortality rate o surgical technique instead of to the pre operative treatment and medication. That factors other than surgical technique affect the surgical mortality indirectly and in a complicated manner is borne out by the following facts

In 1918 sixteen patients with exophthalmic goiter died before operative procedures were possible in 1919 eighteen died in 1920 fifteen in 1921 ten and in 1922 sixteen an average of fifteen during each of the last five years Before this year no drug as known to exert a material influence on the natural course of the disease and there was rone which could be administered with the expectation that it would avert impending death. During nine and one half months of the present year apparently because of treatment with Lugol's solution only four patients ded before surgical intervention was possible All who have observed the improve ment in patients ; ith exophthalmic goiter following the administration of this drug are convinced of its value in this d sea & Not only has the pre-operative mortality rate been reduced but the patients have b en accepted later by the surgeons as operative ri ks In spite of the acceptance of these cases which in the beginning vere poor operative risks the surgical mortality rate and the frequency of the typ cal postoperative hyperthy roid reaction result ing in death has progressively decreased

Hummer and Boothby emphasize the dangers of indiscriminate use of iodine in the treatment of cases of gotter Their experience confirms that of hocher in a certain definite but restricted sense since they have repeatedly seen patients with adenomatous goster with ut hyperthyroidism rendered hyper theroid by the diministration of sodine recommendation for the u e of iodine is limited to true exophthalmic goiter exhibiting the characteris tic symptoms described elewhere by them and accompaned pathologically by diffuse parenchy

matous hypertrophy

Roth O The Dangers of Iodine Therapy with Special Consideration of Modern Attempts at Golter Prophylazis (U ber die Gefahr Jodtherap e unter spezieller Beruecks cht gung d mode nen Bestreb gen d kopfprophyl Schwiz med Wich 5 hr 1923 hu 865

On the basis of thirty cases of jodism following the use of iodostearin Roth warns against the indis enminate prophylactic treatment of goiter Of particular interest is the fact that the majority of the patients were given only very small single and total doses of the iodosteann but developed typical

symptoms of thyroidism and some of them even an iodine goiter (Locher) One patient had pronounced symptoms of jodine goster after three months use of the sodized so-called full salt In another case of severe sodine goster produced by the iodosteann tablets permanent arrhythmia with cardiac enlargement resulted

LOCKER (Z)

Patel Exophthalmic Goiter Operated upon by Jaboul y Twenty six Years Ago by Bilateral Section of the Sympathetic Nerve (Got exophthalmiq e pé é p I boulay il y gt sax ans par se t n bilaté al d symp th q) Lyon gt sur 0 4 XX1 81

The patient a woman developed exophthalmic goster at the age of 25 years Medical treatment was without effect and during the menopause the symptoms became aggravated. In her forty seventh year of age when the signs of the disease were very marked Jaboulay sectioned the cervical symnathet ics Rapid improvement resulted After two months the heart and respiration had become quiet the pulse rate was 60 and the dyspnora and nervous ness had ceased Fourteen years later the neck was normal the pulse rate was 80 and regular there was no palpitation or tremor slight dyspnora was noted only when the nationt mounted the stairs and the exophthalmos was only moderate. Tod v twenty six years later when the patient is 73 years of age the condition is unchanged and she is of the opinion that she was cured by Jaboulay's oper ation

Leriche who has performed Jaboulay's operation many times was surprised that the only persisting s gn was the exophthalmos as usually this is the sign most markedly influenced by operation on the sympathetics In discussing the case report he em phasized the importance of careful removal of th upper pole of the gaughon

Patel ascribed the persistence of the exophthalmos to its long duration before operation which may

bave resulted in sclerosis WALTER C BURKET M D Roeder C A Thyroidectomy J Am M An toza İxxxu cra

To prevent an unsightly scar from induration and adhesions between the skin and the muscles and the skin and the trachea Roeder uses the following technique

The Kocher incision is carried one layer deeper than usual that is through the deep fascia and the fascia is sharply dissected from the muscles beneath The lobe of the thyroid to be resected is exposed by making a vertical incision through the sternothy road and sternohyord muscles 1 in or more lateral to the midline and retracting the muscles outward. When necessary a very small rubber drainage tube is inserted. The solit incision in the muscles is closed with No oo plain cateut and the skin incision is closed with No o plain gut passed through the deep fascia and platysma muscle

ARTRUR L. SHREPPLER M D.

De Ouervain F The Mortality of Operation for Simple G iter (La mortalité d I opé tion du g t simple) P stemtd Par 1024 xxxu 60

De Ouervain's statistics of 2 200 operations for simple goiter showed a total mortality of o 86 per cent. In the cases of 1 682 patients less than 40 years of age there was only one postoperative death The mortality (o 6 per cent) is therefore practically nil for this age period. In the cases of 316 patients between 40 and 50 years of age there were three postoperative deaths a mortality of r per cent In the cases of 145 patients in the sixth decade the mortality was 4 1 per cent among patients in the seventh decade 20 per cent and among those in the eighth and ninth decades 25 per cent From these figures it may be concluded that with the perfection of present-day surgical technique the danger has decreased up to the time of life when cardiovascular and renal manifestations begin to appear The pati nt may be told that there is prac tically no risk under the age of 40 years but that thereafter the danger rap dly increases

The greater the age the more important are the organic stigmata and the greater the necessity for pre-operati e prophylaxis DeQuervain gives pa t ents with card ac conditions a pre-operative course of d gital's and those with diabetes or renal conditions dietary restrictions. The night before operation camphorated oil or optochine is adminis tered By these means the danger of pneumonia and operative shock is lessened Shock is the principal risk in the go ter operation. De Quervain has never se n it in patients under 40 years of age but it was th cause of half of the deaths of patients over 40 W A BRENNAY

years of age

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Dowman C E Hend Injuries J M d 455 Gort 1924 zut 87

Head injuries should be considered from the stand point of brain damage. Within certain physiological insits the soft parts accommodate themselves to changes in the shape of the skull but when the limit is reached there is local damage to the blood vessels membranes and brain and increased initia cranial pressure due to harmorrhage and orderna from medillary centers are subject to this press ure Four stages of excebral compression occur. (i) the symptomies stage. (i) the stage of medillary compensation in which uncreasing blood pressure overcomes intra canalia tension and (i) the stage of medillary canalia tension and which uncreasing blood pressure overcomes intra canalia tension and (ii) the stage of medillary canalia tension and which uncreasing blood pressure overcomes intra canalia tension and which compensation fails

The local symptoms depend upon the area in sured and certain general symptoms and findings depend upon the degree of pressure and the location of the trauma The temperature which is at first subnormal is frequently raised lat r. The pule rate which is primarily incr a ed becomes slow and full if compression ensues The blood p es ure is sub normal during shock but rises with the increase in intracranial tension Respiration is at first quick and shallow but becomes slow and stertorous Pu pillary changes may be of any type The eye g ounds should be examined rout nelv f enous d latation ordema and choked disk. The pressure of the spinal fluid should be determined and the spinal fluid exam med for the presence of blood

There are eight types of head injury

1 Massive brain injuries v th profound coma and medullary exhaustion. These cases do not respond to any type of treatm nt 2 Middle meningeal harmor hage. The history

and fi dings are typical. The treatment is operative

Fractures with local brain injury. These should
be treated by debridement

Lesions with r pidly incleasing intracranial

tension Subtemporal decompres on is indicated 5. Lesions with slowly increasing, pressure and not marked symptoms. F equently repe ted doses of magnesium sulphate a hypertonic diet and occasionally the intravenous inject on of 50 c cm of a 30 per cent sodium chloride solution will arrest the increase in pressure.

6 Cerebral concussion with momentary loss of consciousness followed by practically no symptoms Observation should be continued for several days 7 Depressed skull fractures without 33 mptoms

Operation s indic ted

8 Scalp lacerations These should be carefully cleaned and the skull inspected before they are sutured M L Mason M D

Delherm and Morel Lahn The Roentgenography of Intracranial Tumors with the Exception of Hypophysial Tumors (La radographe des tumeurs intracran nes tumeurs de l hypophyse exceptées) Preiss mid Par 1924 EXER [3]

The authors review the progress of recent years in the roentgenological diagnosis of intractanial tumors. In certain cases the calcium content of the tumor may be insufficient to allow it to be seen directly and it is manifested only by the changes it causes in the cranium by compression or erosion. If it has a calcium content sufficient to produce a saidon it is directly visible part. The authors discuss the trentgenological diagnosis of both invisible and visible tumors. The first group include ponto cerebellar tumors by diocephalus sarcoma and the cranial tumors of infancy.

Most directly visible intracranial tumors are cal cified and malignant. In this group are endothelio mata sarcomata fibromata and psammomata

The authors report two cases of cretevial tumor in which the growth was clearly visible in the roent gen picture. In the first a thorough climical examination led to the diagnosis of eccerbail tumor. The roentgen plates should a spherical mass about 6 cm in district with clear borders which occupied the number of the control of the co

In the second case examination revealed a bony projection on the right of the cranium. At opera tion a tumor was enucleated from the frontal region

Because of the difficulty sometimes experienced in diagnosing tumors of the brain and determining their exact localization no method of exploration should be neglected. The Y ray may be of great and Direct visibility of tumors which is dependent upon other calcium content is the exception but upon their calcium content is the exception but table modifications of expecially of the internal table modifications of a tumor in its neighborhood under the influence of a tumor in its neighborhood in the influence of the content of the discouss sutures expecially in the nalizations got importance. We also the property of th

Demel R Meningiti Serosa Circumscripta Cere brails Stimulating Tumor of the Brain and a Contribution on its Et logy (De Mem git s 5 i cum cnpt e ebr hs u te d m B lide des Il ntum and en Bet ag au hre Acti logie) A ch f ki Ck 1933 CEN 56:

The author reviews briefly forty eight cases of meningitis serosa circumscripta cystica in the cra mal cavity. In one third of them the condition was localized in the posteri cranial for a These cases can be treated very successfully by operative meas ures 1 cure folkwed operation in 80 7 per cent of the e reviewe! The operative mortality v as 216 per cent an i the total mortality including that of ci c not operated upon 1415 per cent

The origin of the cost was traced to chronic inflammat ry processes in the ment g saccompant by a thesions and overgrowth. While the normal mening's are not permeal! to fluits it my be assumed that under pathological conditions with changes in the 1 loo I vessels the cost valls may r to luce fluid. Chi f among the causes are trauma

and infection

Because of the uncertainty of the symptoms, the diagnosis is often very difficult in a cially the diffir entiation from tumor of the I rain \ case in which the course's mulate I that of I rain tumor a reporte ! The patient a man 34 years of age hal also a cong nital developmental defect of the brain which probably had some etiological relation his to the meningitis. In 1917 an operati n vas perf rm 11 r su pected tumor of the cerebellum by you Haberer Fluid poure i out in a stream from an arachnoil east but others Le there were no pathological fin ! ings. In 1918 becau e of recurre ice of the symptoms a nuncture was made at the site of the former trephingtion \ small amount of fluid was evacuated Death occurred very suddenly a f w days Jater

Autonsy revealed a lirge subgrachnoid by I in the left islan i of Reil an I marke I set at tion of the left frontal a I temt tallobes Asmaller cyst w s fo n f in the region of the anterior horn of the left lat ral ventricle and a tightly file I cost in the regi n of the defect in the cranium in the back of the head The diagnosis was micr gyrus of the frontal an l temporal opercular region with abnormal conformation of the sulce an i gyri

It is e ident ther for that a congenital abnormality in the reg on I the fos a of Syl iu le l remarkably late in life to a circums ribed ext mal hydrocephalus associate I with relatively in ld meningitis scrosa. The clinical ricture was characterized by masking of the I cal vmt ton's by the general symptoms. The findings ere there f re dep indent primarily upon the presence of fl 11

Ayer J B A Brief Re I w of Cert in Mectanical Consid rati as in the Testment of Meningiti 1 3 ork St 1 J W 0 4 1 190

Wer discusses certain haracteri ties of the cere l rospinal flu d rathy ays relation to the cour e of meningeal infect on which and il e the tr tm at f all forms of men nextis

The meninges at attacke (1) invading org n ns in two ways (s) through th blood stream and (2) by spreading from a focus of infection. If ing reached the subarachnoid space the bacteria spre d with such rapidity that in mo t cases almost from

the beginning the process is a cerebrospinal conlition Although the arachnoid is the first to react to the invasion the pix is soon penetrated and in vasion of the subpial nervous tissue occurs. The permascular spaces become infected exulate i found in the ventricles and before long a ren ventriculate is pre ent. If death does not occur in the period of rapid I ssemination a tenden v toward localizate n becomes ma if st. The equipte tents to localize in foci of the sul tracknowl spaces. The mo t common areas of localization are the deep cerebral sulci the basilar cisternæ and the spinameninges belo the foramen magnum and at the thoracic level

Theoretically treatment should be directed towar I framage of the infected membranes and it meation of all meningeal reces es but practically this cannot be done. However it is possible to reach the subgrachnoid space by other means th n lumbar puncture Multiple punctures of the pinal canal give admitta ce to the crani I fluid nathways I f draining and irrigation. In addition to the lumbar route ventricular an I cortical subarachnoid punc tures have proved of value t the treatment of meningitis I uncture of the ci terna magna has b en lone ly lyer in 150 cases without accilent When this is combined with a lumbar puncture below a la cortical subtrachnoi i puncture abo e the opportunity is offere! to strugate the meninges provided there is no block

The indic tion for the various methods of treat ment depend upon the presence or absence of a block in the cerebro pinal fluid pathway goroccus men notes should be treated with scrum through the lumbar route pro-ting the flu d path ways remain open. If the pi al subarachno d space is blocked by exudate drain ge or s rum adminis tration should be eff cted through the cisterna ven tr cles or cortical meni geal paces. In other forms of meningiti lumbar and even ci ternal drainage is entirely a effective. On the other hand irrigation if begun early ma be of value

LOTAL I' DARS MD

Ford F R nd Firer W M Primary Sa coma tosis of th Leptomeninges Bill Joh i II p-

Pour cas s of so alle I streomato is of the lep tom ninges are r ported in detail and twenty eight ca es foun i in the l terature are added in abstract Clinically the first symptoms f this cond tion

may t efe abl to the pinal canal o the cran un but befor the terms att n of it rapid course both cer ir I and p at vmpt ms are present The vintoms may be groupe las fill s (1) s gas of ed intrac a nal p ssu e (2) peripher l'era al nerve p l c (3) gn f m ning l i ritation (4) sg of a cord t si n () s gn of posterior spinal root in 1 1 (b) symptoms of the primary ent gro th

Usually the most str king feature presented by such cases is the evidence of a reas d intracramal pres ure without any signs of a localized tumor In such cases the spinal symptoms may be characterized only by pain in the back and legs On the other hand the symptoms may closely simulate those of a cord tumor particularly when the cerebral symptoms de

velop slowly

The pathological findings have been very con stant. In fifteen of the cases reported the primary growth was found within the cerebral ventricles Hydrocephalus is almost always present. If the primary growth is intraventricular small metastases may be found scattered over the ependymal sur face Tumor cells are usually found implanted about the base of the brain from the optic chiasm to the pons and within the arachnoidal cisternæ and the interpeduncular space The perivascular spaces in the cortex may be invaded by tumor cell and the midbrain a usually invested by a sheath of tumor tissue Beneath the cerebellar lobes the meninges are infiltrated and in each cerebellopontine angle a tumor mass is commonly found which invests the facial and acoustic nerves. All of the cranial nerves become ensheathed by tumor cells which penetrate between the nerve fasciculi. In the spinal canal the growth fills the subarachnoid space more or less completely and is always thickest on the posterior surface of the spinal cord. The metastases occur first in the perivascular spaces and along the pial septa of the cord Small clusters of tumor cells are found about the spinal root ganglia and all of the roots show nodular enlargements

Cells of variable shape are found in the spinal fluid Some are large vacuolated and multinuclear Others are small round cells with darkly stained nuclei which contain very little cytoplasm. The larger multinuclear cell are similar to the clasmatocytes seen in peritoneal exudates Metastases occur by way of the cerebrospinal flu d Micro scopically the picture is that of a true sarcoma al though many tumors sho glia fibers and must be classified as gliomata Perhaps the more accurate silver stains will show that all of these growths have a glial origin

Because of the variation in the clinical picture the diagnosis of the condition is difficult. The presence of the characteristic cells described in the spinal flu d is almost pathognomonic of the disease. In addition the cranial nerve palies which occur are peripheral in type always bil teral usually sym metrical and unassociated with signs of a brain stem les on Primary intraventricular growths may be shown by ventriculo raphy

LOYAL E D VIS M D

Park r H L The Clinical Significance of Pain in the Area Supplied by the F fth Crani 1N rve M: 1 M d 924 n 69

Pain in the fifth nerve area thout any ob tous pathological finding to account for it is a difficult problem and one that is frequently presented to the neurolog st to solve Paroxysmal trigeminal neural gia belongs in this category but its characteristics

are so clear cut and so constant in their appearance that the diagnosis is less difficult and modern treat ment offers a favorable prognosis

However paroxy smal trigeminal neuralgia is only one type of facial pain and constitutes only a small number of the cases of pain and disagreeable sensa tions in the area supplied by the fifth nerve More over treatment suitable for paroxy smal trigeminal neuraleia is productive of disaster when used for any di ease simulating it

The crises of migraine may be restricted to a relatively small part of the fifth nerve area This pain usually occurs in the fourth and fifth decades of life replacing the usual headaches vomiting and scotomata of earlier years but it may occur earlier In some cases it may be associated with paroxysmal trigeminal neuralgia but it runs a distinct and separate course parallel with the latter disease and readily distinguished from it by its non paroxysmal character Section of the posterior root and alcohol injections of the fifth nerve in cases of migraine make the condition very much worse than before the operation

Old persons complain relatively often of pains aches and peculiar sensations in the jaws symptoms are extremely persistent do not respond to treatment and become worse with each operative procedure. They may be considered as due to arteriosclerotic changes in the ganglion or brain stem or as part of a semile delus onal psychosis. The common complaint is a drawing pulling or boring sensa tion in the edentulous gums. In cases of tumor in volving the ganglion intracranially or by involve ment of the trunk and branches of the nerve at the base of the cranium or the floor of the orbit pain is an early symptom Nasopharyngeal malignancy is to be thought of in such cases The pain may be present months before the appearance of other signs of nerve irritation or destruction

Whatever the cause of the original trouble leading to multiple operations on the cramal sinuses alveoli and jaws such interference is apt to be followed by constant pain for which no explanation can be found A matter for consideration is the part played by the scarring and mutilation in the persistence of the trouble

Post herpetic pain may usually be recognized easily from the resultant scarring. In the type in volving the ophthalmic division of the nerve the scars may be hidden by the scalp hairs Pain may be a symptom of hyste ia psychoneurosis or biological inferiority In such cases it is only part of the un derlying inadequacy and should not be accepted as indicative of local d case. Investigation of the patient from the standpoint of social efficiency will help in the diagnosis but usually such cases are extremely difficult to treat espec ally after surgical intervention on the local structures

Finally there is a large unclassified group of cases in which the cause of pain in the area supplied by the fifth cranial nerve cannot be adequately ex plained

Frazier C Il Annstomosis of the Recurrent Laryngeal Nerve for I araly is of the Recurrent Laryngeal Nerve 1888 S g 1924 l st 161

The author has devi el an operative procedure to reheve bilateral paralysis of the recurrent larj ngeal nerve by a method com ural le to the nerve anatomosis use l so successfully in parily sof the facial nerve. Bilateral paralysis of the recurrent larj ngeal nerve his frequently followed thyto lectomy.

In the majority of such ca es the nerve is injured either at the infert pole if the lateral lobe of the thy to d or at its passage to the inner as le of h. Interal lobe as it courses up war I in the grouve between the trachea and cesophagus. Of course if the nerve has been revected throughout its entire cour e the con

litions essential for n eye and tomosis are lacking Complete bilateral paralysis of the recurrent laryngeal nerve implies paralysis of the intrinsic muscles of the larvax the constrictors the dilators and the intrins c tensor Such a condition rarely causes aphonia though there is usually more or less impairment of phonat on due to the f stalyais of the lateral errop-arytenoi I muscles and the there are teno leus. The cond tion is atten le l'al o by dyspnora which is more or less a ute a corling to whether the paralysis of the posterior crico ary tenoid mu cles is or is not complete an I bilateral. If both s les are p ralyze i but not c dayeric the respirators distress is such that tracheotomy becomes use nt Attention is called to the fact that monolat ral or bilateral paralysis of the recurrent lary ageal may be present in a patient with an excellent voice. The terms complete unit tot I paralysis should be applied only to the condition of the lary win which there is paralysis of the abjuctors tensors ad fuctors and the reflex tonus a gone. In cases of subtotal paralysis posticus paralys s of one vocal cord and partial posticus paralysi of the other the possibility of suffocati n if the partial caralysis of the function ng cor i lecomes complete is such that tracheotoms shoul! be performed as a precautionary measure

In the past several measures were r sortel t whereby the tracheal tube m his be di pensel with The most successful of thes war dil tation of the glottis with bougies and ventricul co le tomy or the removal of one ocal cod n l the adj cent ventricular floor anterior t till oc lp ce s

Before nerve a astomosi is con idered it is ne s sary to be certain that there is free motility of the crico arytenoid joint. If this joint i five lin mo tilty can be restored how we perfectly the an sto mosis may resto e i nerv ti. The best ay to det rimin the degree of motility of this joint is to mak, passi emotion it had a vis, alf reeps through the direct larying to cope.

It is assum d of cour e that nerv an st mo sis considered only after the possibility of effecting repar by direct end to end turn his ben in estigat d and the procedure las ben found impacts cable. In such cass a reprecion nantly motor in function jis list bid for instomo is the grant lary ageal I or this the author chose the ram s discendens hypoglossi for the following reasons I It is situate linclose proximity to the recurrens.

2 It can be readily exposed on the sheath of the caroud vessels

3 It is of such length that its transposition to the per pheral stump of the injured nerve without ten

si m is fairly simple

4 The functions of the muscles supplied by the
recurrent lary ngeal and the descendens bypoglosu
are alike in that the intrinsic and extrinsic muscles of

the lary are a part of the same apparatus
5 The regular part lysts of the sternohyoid and
sternothy to I muscles which the ramus descendens
hypoglosis supplies as a matter of relat; ely littl

consequence from either the cosmetic or the func-

is a rule the recurrent laryngeal will be found entangled in cicatricial tissue from the superior pole of the later I lobe of the thyroid downward as the re ult of the previously performed thyroidectomy It is therefore essential to have some anatomical gus le which will direct one to the nerve above the level of the lateral I be or the stump of it. As the most constant and readily localized anatomical guide the author chose the inferior corns of the thy roid cartilag This process and the inferior con str ctor of the phary nx which is attached to the in ferior e rnu and the adjacent surface of the thyroid cartil ee should be kept in mind. Here the recurrent lar ngeal day des into two branches one to supply the inferior constrictor and one to the intrinsic muscles of the lary ny After the peripheral portion of the 1 jured nerve is uncovered and identifi d the ramus descendens hypoglossi is easily identified sit I'm nds on the anterior surface of the sheath of the carotid vessels. It must be borne in mind that to reduce a ound contamination from the tracheal ! tula the incision shoul I be made as far away from the me to n I ne as possible Therefore the author places the skin incision along the anterior border of the sternocles fornastoid muscle

France reports a cue in which such an operation was carried out no both sides. Five months after the first operation upon the right side examination showed restoration of tonus and tension. The right has no restoration which was apparently mobile that the restoration of the side of the restoration of the control edge and the or replaced by a nor mall margin. The patient stated that he noted a decided improvement in the laryneed air was

SPINAL CORD AND ITS COVERINGS

LOYAL L DAYS MD

Vincent C. The Diagnosis of Neoplasm of the Spinal Cord and the A lucof Intra Aracha I de Injections of Lipid I (Sur I diagnosis des firmati compartiam II dividual diagnosis des firmati compartiam II dividual diagnosis des firmaticompartiam II dividual diagnosis des firmaticompartiamento de la lipid diagnosis des firmaticompartiamento de la lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de lipid diagnosis de la lipid diagnosis de lipid diagnosi

The author calls attention to Sicard's method of injecting lip odol into the spinal subarachno d space as a valuable corroborative diagnostic procedure On the other hand he stresses the importance of the clinical syndrome of spinal cord tumors and is inclined to accept such clinical evidence before that

obtained by Sicard's method

In much two per cent of the cases sensory disturbances accompany the motor symptoms produced by a cord tumor. Emphasis up baced also upon the diagnostic value of pains localized to a segmental distribution and to more diffuse pains present in the parts of the vertebral column adjacent to the cord tumor. In the presence of a paraplegal with out-demonstrable sensors of turbances the arrest of an injection of I pool of within the syman meetion of I pool of within the syman work, hipsoid may give corroborative diagnostic evidence but should not be relied upon wholly for the exclusion of the chincal symptoms present

Nothing is stated as to the after-effects of the injection of hojodol Loyal L Davis M D

Froment J and Dechaume J The Roentgen
Distincts of Spiral Cord Tumors with the Ald
of Lipiodol (R d o-dusg ostic chidn n lip odolé t
tumeurs édull r) P méd Par 9 4 xxxx

65

Intraspinal injections of lipiodol are of great aid in the roentgen diagnosis of pinal cord tumors but the interpretation of the findings requires consider able skill. The method is a valuable adjuct to clinical study.

By a sense of schematic drawings the authors il ultrate how an extra or intra medulary tumor may cause different dispositions of the injected pisodol in the spinal canal. After the injection into the upnote the point at which if any the lipsodol is arrested a sense of receigeno ams is neces any to determine whether this arrest is temporary or persistent and a study should be made of the progress and shape of the lipsodol im ge and the changes it undergoes during the next few days and when the pulseral sponition is changed. In this manner helpcomposition is considered to the control of the control of the growth will be obtained. W. A Big. Vas.

Adson A W Tumors of the Spinal Cord Surgical Treatment and Results M 1 t M d 19 1 vn 79

This article is based upon a study of the records of 151 cases with a definite d agnosis of spinal cord tumor which wer operated upon at the Mayo Clinic in the period from January 1910 to October 1921

These tumors are found to be e tradu al subdu rat hut extramedullary and not amedullary. About half of the extradural tumors are mall gnant. The extramedullary tumors are usually beingn and arise from the meninges nerve roots or blood vessels. The intramedullary tumors are usually gluomata or gluosarcomata.

Extradural tumors with the exception of the mal gnant lesions lend themselves fairly well to

suggeal removal Fatramedullary tumors which comprise almost half of the tumors found are usu removable. Intramedullary tumors are extremely difficult to treat surgically but in many cases relief may be given by splitting the cord dorsully and permitting the tumor to extrude Caudal tumors sometimes arise from the filum terminale and are occasionally gliomata but if they are far enough below the coous to permit dissection operation is nos tible without trauma to the cord.

In accurate diagnosis depends upon several factors A thorough detailed history of the symp toms in their proper sequence is invaluable. The most common symptoms-pain motor and sensory disturbances and loss of bladder and rectal control and of sexual power--occur in all combinations depending on the size and location of the tumor and its relation to the cord. In some cases root bains have been pre ent for years and various operations have been performed vithout relief the proper diagnosi having been made only after the appear ance of definite motor or sensors changes or both Pain with or without impairment of motor function with or vithout sensory changes usually radiates along the nerves involved may or may not be associated with tenderness of the spine i exagger ated by coughing sneezing bending forward and lying down often relieved by the standing position and walking and becomes worse at night of the cauda equina are apt to produce pain before they cause sensory or motor disturbances

A thorough general examination including an I ray examination of the chest and spine is essen tial This should be followed by a careful and ac curate neurological examination. Lumbar puncture reveal the physical properties and pressure of the spinal fluid and u ually the presence or absence of block of the spinal canal but if it does not give evidence of blockage puncture of the ci terna magna and differential pressure studies may be necessary Blocking of the spinal canal may be produced by inflammators lesions but i usually due to a tumor Pneumography of the canal may aid by revealing the character and location of the lesion Yellow spinal fluid is characteristic of blockage of the canal The Sonne test is often positive in cases of tumor but the average cell count and Wassermann test are not made positive

The Mayo Chane series of 151 cases aree double for convenence in study into mine groups. Group 1 extradural tumor twenty-one cases. Group 2 sub-dural extraneouslary tumor forty-one cases. Group 3 sustained that was found (former memography of the condition of the condition of the condition of the condition cases. Group 4 changes are group as the condition of the condition cases. Group 5 changes are conditioned to the condition cases. Group 8 gumma of the condition cases. Group 8 gumma of the condition cases.

The average duration of symptoms was twenty nine months in Group z fifty two months in Group 2 forty-one months in Group 3 and forty five months in Group 4. In Group 2 of pre cent of the patients had pp 1 in a fix up 2. 3 per cent in Croup 3. 3 per cent in Croup 4 so per cent and in the other groups. 5 per cent while both a mony and motor disturd ances are offen the pp Ionizating motor disturd ances are offen the pp Ionizating motor of the cases re neved there was puttal or complete 1 sturb in coff motor in I ensort function. The tumors 1 locate linthe 1 raile g in a s in the gent cent in the certification in the secretization in four 1 in the secretization

The surgical price luce of no pe salt hangue except that of perf them setus and avoid ne of anjury to the ord. If the tumor is not here, and a rigion until tall innections is them thool of choice. A on stag, this mectoms if possible is much to be perfectly in the open that is not or more stress on a cun if the jutter's condition. Is a sufficient of the military to the surgices of the military to the surgices of the military surgices of the mi

Formerly, ether anexthesia wa cit ploved in all cases ex et the w whith we e poor surgit all risks on account of obes 15 renal compit at inso or cardiac impairment I nich batter local anexthes was u.e.l. The operation 1 now performe I under nerve block anexthesia if the case is suitable 1 ce use this i followed by less harmorthage and ungual back to sometimes where are a life in the use of ether 1 sometimes were are a self-under the softeners.

The con alescence an I recovery of these | tients d tend on the type and location f the turn r the duration of the symptoms and the su giral procedure. If the tum's a remove last out trauma and the nationt had symptoms for only one year or less recovery will usually be complete. If the pat ent had symptoms for not more than thre years ni the tumor is removed completely the improvement will be very mirked even if recovery a not complete The results of remo 1 have been more atisf etory in cases of soft tumors th n in case of hard roun ! tumors and in thos in whi h the growth was loc ted in the cau fall or I mbar reg on than in those n shich it is in the dorsal or cervical region. I atradural and intradural but extr medullary tumors are usu ally complet ly r moved ath ery Ittle diff ults but intrame lullary tumor are d fl cult or i ni os ble However in cases of intrame full ry to remov tumo s tempora y imi rov ment often re ults if the dura is left pen an I the cord a spl t dorsally. The use of radium or deep \ rays may prove of some value Careful screening and 1 oper losing ar necessary to prevent paralys of the cord

Of the 10 turn rs found so tree tiver a moved completely and 5 perc at were emost purtually. In twenty eight cases removal as mposs ble. The available reports to date ho the 10 the 15 patients 108 are living thrity three are perfectly well and working at were benefited and are able to do light work thirty five were benefited but a cost working six were benefited temporarily but the symptoms returned and it le lesson progressed and fifte n are helpless. Thritten carnot be trate! 5 venty four patients (6s per cent of those in whom tumors were found I) were benefited by the overation

PERIPHERAL NERVES

I of noff A L. Modern Impro en ents in the Surgery of the Peripheral Nerre Trunks with Reg. rd to Land neural Topog aphy [0] modernen Lru gen haiten n.de Chirurg ep phere Nrent emme unt Bruecks big us der donutal Topog aph.) le kandl d. R.J. C. A. f. i turpraf ogs.

The results of the mottre entimestigations regarding enfoneural t pographs a director of flowing injury extend the infection for operation. The operations may be divided into two main groups according to whether their objects the restitution of confuction or the exclusion of certain nerve pits.

The r ults of operations of the first type are, good in early cases in fineteneition is undertaken not let than six menths after the receipt of the injury and are less \ \text{ or low hem the operation is obligated for from it to twelve m inh. \text{ \text{ title a wear they are good in only to per c it of cases and then only as egantle, sensory, and \text{ pine tunction as regards sensory and r pluc function as regards.

At the present time it is impossible to make a definite stat ment as to the results of endoncural operations of the ce ni group. With perfection of the technique operations if this type have become oil gatory in many liceases of the central nervous x tem us. If as those of the peripheral nyous system (paral. contract in tropher dis

turl ances of reflex origin.

The techn use of the operation depends pon the endoneural it poeraj by and upon the instrumentanum. I specially constructed electrodes for the exact testing of the function of the bundle at the site of uperation after 0 trume importance.

In spite of present deficiencies the technial achievements in this dom in have been attraordinarily giest.

In the discussion of this paper TROINIA is proted upon a atomical reach she carried out on all of the larger nerve trusks throughout their intre course to the pure local Fadoreural anastomo es are fa by numerous On special interestion with archia at the fold morpholy gical differentiation in the bundle became appropriate (1) strong parallel files at the way as toom set (3) retriculty the files and the way as the control of

NEDSCHLEBOFF reported that in a case of very severe c usalg a v hich had been treated unsuccess fully el ewhere by neurolys's repeated injections of alcohol and resection of the sympathetic nerves of the brachial artery he resected the sensory path of the median nerve from the axilla downward to the extent of 5 or 6 cm with the result that after one week the patient as abl to return to active ervice

in the arms

In the demonstration by POLENOTE of trans er e sections of nerves no information on the distribu tion of the blood ves el was gi en In an operation for aneurs m of the brached arters with threatening spontaneous rupture an i severe neuralgia of the median nerve the nerve was found blut han I thick ened in a pindle form by an en ioneural aneurisma spunum. To arrest hamorrhige it was necessary to introduce a tampon into the perineural inci on for one day

Hesse stated that when the conduction of an injured nerve is not entirely destroyed it is no essary to proceed with great care. It is better not to resent at all than to resect too little and sutu e t gether stumps hich becaule of scar tissue and topo graphical relationships are un uitable. On these grounds he advises freezing a stend of resection in cases of contraction tr phic ul rs etc Expen ments made b him on the scratic nerve demon strated decide? variations in the endoneural topog raphy and sh wed that an exact id ntificati n of the desired bundles can be made only by advancing

from the periphers in aid

STRADYN stated th t when r ction mu t be carried out section 2 to 5 cm in 1 ngth is usu ils remo el The difference in the tran verse secti n is then so great that restitution of the endoneural topography can be only approximate. The great differences in the statistics regarding functional results are to be explained partly by the liffe ences in the length of the periods of observation Lx periments have shown that the length of time neces sary for the regeneration of a nerve trunk is a matter of several years

RUBASCHOFF stated that in the study of endoneu ral topography the staining in thods perfected by the anatomists Worobioff and Kondratieff have great advantages o er other method of preparing histolog cal Decimens

10 IR ()S EN 5 CREN (Z)

SYMPATHETIC NERVES

Hunter J I The Postural Influence of the Sym pathetic Innervation of Voluntary Muscle MdJ lui la oa

A review of experiments on section of the am pathetic nerves in association with decerebration and of the results obtained by Royle in operations in clinical cases leads the author to the conclusion that the sympathetic influence is continuously active in voluntary muscle the blood vessels and hollow

In voluntary muscle it produces plastic tonus which is subject to modification by the cerebro spinal system. The constriction of arteries arter soles capillaries and venules is brought about by

the same influence and may be inhibited by vaso dilator nerves. The involuntary muscle of hollow vi cera is maintained in that degree of relaxation appropriate to accommodate the contents within it and the sphincters are tonically contracted by the sympathetic innervation. The I trasympathetic nerves intermittently stimulate the mu cle of the wall and relax the phincier

In each case the sympathetic system impo es a po ture in the sense of that ord employed by Sherrington on the structures innervate | by it It is possible to conclude therefore that this is a general and important part of the function of the thoracoluml ar or sympathetic outflow

SLUNER I LOCH M D

Jonnesco T The Surgical Treatment of Angina Pectoris (Trat m at hiru goal de la gia de potrin) I r med P 1924 xx 138

The author briefly reports upon the results ob tained by sectioning the cervic sthoracie sympathetic trunk in ix cases of angina pectors. He divides thes cases into two groups. In the first group of four ases the angina dominated the clinical picture without any serious car l ac symptom In the two other cases a well marked cardiac decompensation as present in addition to the angina. Of the four patients comprising the first group three are entirely well the longest interval after operation is eight vears. The fourth patient died eight months after the operation Both of the patients with signs of cardiac decompensation die on the fourth das after the operation

Ionnesco believes that in the majority of cases of angina pectori resection of the cervicothor ci sympathetic trunk upon the left side i sufficient He emphasizes the fact that in uch a resection the stellate ganglion must be r moved since it constr tutes the relay station through which afferent im pulses from the heart and aorta pass to reach the spinal cord and brain. The theory that such a procedure interferes with the contractility of the myo cardium or the vasoconstrictors of the lungs he refutes by calling attention to the perfect phy ical condition of the patients upon whom he has operated LOYAL E DA IS M D

MISCELLANEOUS

Rosenow E G Specificity of Streptococci in the Etiology of Diseases of the Nervous System

J Am M Ass 1924 lexit 449

By direct intracerebral or subdural injection of material from infection atria or primary cultures thereof in media affording a gradient of oxygen pres sure it has been possible to isolate similar strepto cocci from closely related diseases of the nervous system With this streptococcus freshly isolated after several animal pas ages and many rap d trans fer the symptoms and le ions have been repro duced in animals (the rabbit monke) mouse and guinea pig) and the organism was demonstrated in the lesions. This was tarely possible with similar streptococci from other successand with the specific strains after long ordinary a solis culti-atlon.

The strains from the value 1 x of the termous greatly being agglutinate 1 per feall 1 x neighbirst and polymerists. The strain is the respective per strain 1 x or specific strain in the respective strain 1 x or specific strain in the respective strain 1 x or specific strain in the respective strain 1 x or specific strai

It should be empt a set that the troperties on which specifies the pent are in ever melt hit le and are been notable only 1 is a fait not on technical data! Duten the case ments no a fetch has ecome to light which and are that the pecific prierit with 1 is two cus recognited by a periaps a phase not leffect 1 of the strept to come prouped remains 1 a rate if the power to come prouped remains 1 a rate if the power to specific against the properties specific against the properties appears in a real life to the strept in the power to the properties against the properties against the second properties against the properties against the properties against the second properties against the sec

changes in localization occurred to out, as a passages. This after annual passages are proposed to the passages of the passages. This age among the passages that passages of the passages of the passages of the passages of the passages of the passages of the passages passages passages of the passages

The prevalence of this organism in the fault of normal persons during an epithence of p. critists is me of with in serious consistency and explained to the dear this absence in all but two of forts-clip broad currents one verifacter, when there was no people this is it prevalence in the throat of enough, and the serious and fits also enter in normal persons and its also enter in normal persons and its also enter in normal persons and its indirection of the properties of the properties. The properties of the properties of the properties of the properties of the properties.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bloodgood J C Benign Tumors of the Breast

There are three forms of adenoma of the breast the fibro-adenoma the untraenaliculus muxo fibroma and the cystic adenoma. The last is usually ingle but the two others are commonly multiple.

Multiple encapsulated adenomias occur most from quenth before the age of 25 cases are usually but one type and are fretch moval fe where er found. They avay in size from that of a pe is to that of 3 dies and in the size of

It may be impossible to differentiate single en capsulated adequants from encumiscribe learn noma and vice versa. Hence the necesit for a timor exploration. However this should never be performed unless facilities for radical surgers and wound custuration are at hand. The rare a few encapsulated tumors which are associated with state of the control

tumor is in the nippl zone Large single encapsulated aden mata exist as fibro adenomata situated u ually out ide the breast and as int aganal cular max mata high at confined to the breast. The forme h ve no te dency to sar comatous change and occur in women under 2 years of age. The latter show tendencies toward sarcomatous changes and have not been observed in women under 25 years of age Whene er a tumor re ches th size of a quadrant of the breast or larger is still freely movable and on ralpation suggests an encapsulated adenoma sarcoma must be considered (Edema found at operation about an at parently benign tumor is ve y strong e idence of malignancy and in the majority of such cases the tumor will prove to be sarcoma

Three types of encapsulated adenom is are tunes suspected of malignance () c) site adenoma is which in the authors expenence have never re urred as carcinoma after local removal () actified old floro adenomata and (3) intracaual cular mycomata which are rarely in taken for care nome but whose cellular stroma has been considered

tcomatous

The object of tumor exploration 1 not to remo e benign tumors but to detect early mal gnancy. In a cree of nearly 100 of the author a cree-

there was no recurrence of tumor as carcinoma
William P Van Wagenen M D

Bloodhood J C Pag to Disease of the Female Nipple A Freventable Disease Curable in Its Farly Stages A Study of Thirty Cases 11 h 5 f 1024 > 46

From a clinical and pathological study of thirty cases of lesions of the female nipple the author concludes that lag is disease of the nipple is a preventable di case which is cural le in its early stages

Seven benign lesions of the nipple were completely healed by cleansing measures. There were two examples of the red finely granular weeping nipple from which a hymorrhagic serum exuded treatment const te l of v ashing with soap and water the application of alcohol and dres inc with silver foil five cases of warts without any history of bleeding or scabbing healed under treatment with soap and water washing and the application of alcohol and white petrolatum These cases and seven of benign lesions of the nipple subjected to operation lead the author to the conclusion that there is no relationship between subepi lermal adenoma and Paget's disease of the nipple and that the disease process begins either in the epitermis of the nipple or in the downgrouth of the epidermi into the open ings of the ducts

Benign lesions of the nipple subjected to operation i ere

r Benign subepidermal encapsulated adenoma nine ca es In only one instance was there a super ficial ulceration resembling early Paget a disease

2 Warts three cases One was the site of a minute ulcer suggesting early Paget a disease

3 The red firely granular veeping nipple vith out any underlying adenoma one case

4 Superficial nipple ulceration which clini ally resembled early Paget's disease but microscopically proved benien two cases

Thenty the cease reports illustrating all stages of impile lesions from those doi.ously being to typical late Paget's disease are given with illustrations. From the study of these the author concludes that carcinoma of the epidermis of the nipple begins as any other carcinoma of the skin or mucous begins as any other carcinoma of the skin or mucous carcinoma. The study of the carcinoma of choice undiamnation which undergoes as a card choice undiamnation which undergoes as a card choice undiamnation with the cardinal study of the cardinal study

cancer exhibited ulcration to a greater or less de gree. The lapse of time from the early ulcrative stage until the development of frank cancer varied from eight months to two years. It is safer how ever to look upon a definite ulcer of the ample of more than there months duration as clinically sugfection apparently play no role in the ethology of these prophet less than the thology of

Local mastectomy is contra indicated in the oper ative treatment. When the n pple lesion is maliy mant the radical operation alone is sufficient. When the lesion is being local removal is sufficient. Paget's disease of the inpile with a lump in the breast is a hopeless condition whatever the treatment. With the Plan Western MD.

Tl ompson J E and Keiller V II Mult ple Skeletal Metastases from Cancer of the Brea t Su g G3π & Obst 19 4 xx viii 367

The authors report the clinical history and au topsy findings in the case of a 89 sear-old multiparous negro woman with multiple and 1 ide specad metastases in the skeletial system and viscera from a cancer of the breast. The I reast tumor was ersmall until later in the disease was not associated with axiliary metastases until very late and developed at the site of a tumor known to have been present of the lymph nodes seemed to be second 1), to metastatic osseous denosits.

On section two areas of carcinoma 2 3 and a cm in diameter respectively, were found in the lower outer quadrant of the left breast. Both breasts showed markel fibrogystic mastitis. The micro scopic appearance of the breast tumors and metases was that of medulary carcinoma. The carcerous breast showed precanectous proof feration of the duct epithelium. The entire picture was that of a blood stream dissemination of carcinoma but the luddings and spleen had escape !

WILLIAM P VAN WAGENEN M D

Hanrahan E M Jr Marked Structural Alteration in a B east Carcin ma Recurring After Beleven Yea Bull Johns H pk Hop B lt

In the case reported the tumor of the breast recurred ele n years after rad cal amputation for Paget's disease of the mipple with an associated breast tumor

Examination of the tumor bout two months after the onset of the recurrence bowed it to be very cellular and m de up of large and small irregularly shaped spadle cells. The nuclea slavo varied in size and shape but most of them e e small and clongated They were arranged cregularly. The cells and their arrangement suggested sarrooms but the were in addition islands and e e to be per cities the contract of the con

large Many cells contained two or more nucleols, and there were numerous mitoses

Examination of the remaining tissue three week after radium radiation showed that the spin lie cell described had entirely disappeared and that the scetion a smade up of necrotice cosin staining material in which there are many poly morphonuclear neut ophiles and lymphocytes. There were also scittered large swollen cells esembling the pp thehood cells just des holds. These stained more intensity with 1 gmotoxylin and shop ef fewer in intensity with 1 gmotoxylin and shop ef fewer in the figures but a greater number of nucleols and

E ing who examined the first sections was in chined to believe that he spindle cells were altered epithelial cells which after radium treatment have less capacity for alteration especially since the original tumor vas Paget's disease—a disease of squamous epithelium which is prone to produce spindle cell a d to resemble sarcoma

The author also considers the possibility that the difference in the appearance of the cells after radation might have been an expression of the reaction of to distinct types of cells to this treatment

WILLIA I VAN WAGE E MD

Kelly II A nd Fricke R E Problems in the Treatm nt of Carcinoma of the Breast S r Gyne & Obst 19 4 x 399

The defin te prolongation of life in several cases of recurrent cartinomo of the breast treated by a comb nation. I radium and surgery encourages the continuation of this therapy. Surgery takes precedence over rad um when the process is hinted to the breast. Every breast tumor of doubtful nature should be operated upon and the section of the times the process of the second treatment over the operative field the avails a description of the surprishment of the sur

WILLI M P VAN WAGENEN M D

Bowing H H Radium and X Ray Treatm t of Advanced Carcinoma of the Breast Pri r to Amputation R d logy 9 4 143

The author d scusses four cases of carcinoma of the breast in which the condition was regarded as in operable at first but amput tion was done after treatment with radium and the \times ray

treatment with retuined and the V are.

In the treatment with r duum the skin aurface
was marked off into areas measuring a by 4 cm and
sech area vas see yen 700 cm gm fm s. the radium of the
most off are rather and the state of the state of the
most of the state of the state of the state
most off are rather and the state of the state
most off are rather and the state of the state
were burned in the mass and left in position for from
fourteen to twenty hours. Year treatment was
also given in every case. In ne i stance amputs
to make performed two months after radiation in
two cases three months later and in one case six
months later.

The primary tumors vere reduced in size and masked by deem febrous reas and nearly all of the matsatuse tumors had decreased so much that they could not be playted. The microscopic changes found after operation corre ponded to those noted to MacCarty in untrested cancer. They included differnitation by implicit to the property of the matsatus of the property of th

In three of the cases the neoplasm was an adeno cactnooms the fourth was so altered it could not cactnoom. The fourth was so altered it could not be classified. Areas were discovered which shot ed the classified Areas were discovered which shot ed the tissue changes of differentiation and I himphocy tie infiltration, but these were relatively uncommon as they are early changes. Occasionally, etcl. were found which vere considered possibly active. Fibro is was altered the control of

The finding are interpreted a in heating the necessity of giving the amount of rol ations suitable to the lesion. The ral i theraj at should de othe in attention to cold any method [ft atment that yill initiate or accelerate the natural of lenses. These defen es result from chemical change. The amount of radiation producing them in exact the required background of the cold of

biological dose Thi hould be the goal in the radiation of cancer 4 sa p e-op r t e p ocedure this form of irradiation in hould do much to chiminate the risk of local recurrence and demantion which accompany the neces r is sug it manipulation but sufficient turn must clape between it ridiation and operation to allow the described changes to take place. Is n Di. M.D.

TRACHEA LUNGS AND PLEURA

Gekle WA Lov la WR R nkin HP and We gel BJ Tube culous Ca it ti n of the Lung M chanical Fact rs in Its G nesis and Comb ned Chem th rapeutic and Surgical Treatm nt 1 in W 1 a a 1

GERLER mento s the theory high is bing generally accepted that physiologically he e is a distinct difference bet een the upper and to export tions of the lungs the upper portions being comparatively fixed while the lo exportions high are opposed to parts of the che ct all having a wide range of motion in greatly with each respiratory cycle

In childhood the prevailing manifestation of in trathoracic tuberculos—is involvement of the bronchal glands with slow extension probably along the lymph channels to the periphery—In this type of

tuberculosis the peribronchial interstitial or in cinient tuberculosis of the textbooks the exten sion seems to be into those areas of the lung having the least mobility. In the malignant type of tuber culo is obthe is pulmonalis it has been shown that the consolidations are caused by aspiration of tu berculous pus down the bronchial tree Two factors with a decided influence on this aspiration are the normal respirations and the action of pressure and suction accompanying cough Geller advances the hypothesis that the source of the tuberculous pus may be the peripronchial lymph glands. He quotes Jackson as stating that peribronehal lymph glands may erode into the bronchus. In Gekler's opinion treatment should be directed toward arresting the mobil zation of the tubercle bacillus in the broughtal sıstem

LOYEACE has opened three tuberculous castutes by nb resection and has found the procedure en tirely safe. In entering the castit with a cauter in the first case he found that the ni piration of the smoke caused a severe cough reaction. Therefore in the second and third cases he inserted a small rubber catheter attached to a suction apparatus and in these cases there was no cough then the opening was enlirged with the cautery. He prefers the cauters to the hinte because it produces less hamorina cand there is less chance of piracid of the way to the castillation. After the cauters were opened they are drained and then chemically sternized with gettian voice and metholice blue.

RAMEN and WEIGEL advocate the use of methylene blue after prolonged treatment with gentian violet. The cavities are not only sterilized by this treatment but all o apparently contracted RAMEN BETTMAN M.D.

Shaw H B The Tre tment of Consumption by Artificial Pneumothorax P 111 1924 x 99

Arthical pneumothorax is definitely indicated in cases of repeated and voluminous unlateral paid monary harmorrhage and undatteral rapidly progressing pulmonary therecolosis Is us predefined in chromosally progressive unlateral case, cases in which there is cavity formation with fever and septicema a even those with a limited amount of contralateral activity. the cases of 30 sig. persons in which apparation of a serious plearal elisions has been done even if at that time there appears to be no evidence of tuberculous either in the same or the other lung and cases that have developed a spontaneous pneumothorax even if there are no signs of tuberculous.

The procedure does not achieve a radical cure of the disease but when it is successful it brings about greater and more prompt improvement than any other method of treatment so far known. It is a faulty common experience to find that the collapse therapy frees the patient from cough expectoration fever and the resultant disability of the septicemise.

and permits h m to return to his home without fear of spreading the infection. It is admitted however that it has not yet been proved that it will prolone life The author believes that in the future the induction of artificial pneumotherax will not be postponed until other methods have been tried and found wanting RALPIT B BETTWAY M D

Archibald F The Surgical Treatment of Lai Interni Pulmonary Tuberculosi Am J S & 1924 X X 74 17

Archibal I performs an extrapl ur I thor coplasty up ler ansesthesia induced with nitrous oxid and the local injection of novocaine. He begins resection with the tenth rib les ing the eleventh rib for the The operation is performed in two stages The resection extends under the erector pinze muscle close to the articulation of the trans erse process. The greater the amount of ril re ected the greater the operative risk but also the greater the improvement if the patient survices Sauerbruch recommends the resect on of from a to 8 cm and Bull and Storckl n the resection of fr m o to 16 cm

The inject on of alcohol into the interco tal nerves to rel eve postoperative pain was trie ll's the author twice and then discarded Archibal I once believe I that artificial pneumothorax should be tried first but has gradually come to the conclusion that a certain percentage of ca es progress better il tho racoplasty is done in the beginning. This class includes those in which it would be lift cult to secure

regular refilling In conclusion he presents some very interesting statistics of a large number of cases in which he

has performed the operation lescribed. These in dicate that extrapleural thora oplasty has a definite place in the treatment of selected cases of pulmon ry tuberculosis RAILT & RETTH & M D

Moore W. F. The Bronchoscopic Treatment of

Suppurative Diseases of the Ling J im M 10 4 1 016

The absce s or bronchiectatic c nditi n having been located by means of the physical signs and \ ray examinat on a diagnostic bronchoscoj ic exam mation is performed It the latter examination un contaminate i specimens of the secretions are of tained for an autogenous vaccin. The vaccine is given twice a week Every two months a fresh one is made. The patient is instructed to ail in the treatment by establishing dra page through po tur At the second bronchoscopic treatment the affected areas are thoroughly aspirated. The treatment is completed by cleansing with a solution contains g trinitrophenol and iodine Seven-day intervals are usually allowed between bronchoscopic treatments In the cases of children bronchoscopy is done with out anasthesia or the use of a sedati e and in the cases of adults without general anasthesia

The conclusions arrived at by the author are as follows

In the majority of cases the localization of the disease occurs at the lase of the lung Suppuration is more often proximal than peripheral.

2 Bronchoscopy is the l greal means by which to facilitate better dramage and ald medical treatment 3 Larly diagnosis and treatment are advanta grous

4 Only a certain percentage of patients with ling suppuration can be cured by bronchoscopic frainage and treatment. In a larger percentage the condition can be improved. The remainder with few exceptions can be made more comfortable through the alleviation of their symptoms

s Because of the shadow cast to the fibrous tissue formed in the affected area in the healing proce s the roentgen ray findings do not show im provement as quickly as the subjective symptoms

6 Bronch scopy is a relatively safe procedure in the hands of men properly traited in the work 7 Becau e of the lessening of cough and foul e pectoration with other improvement, patients are willing to continue treatments as long as they are deen el ad unbl RALPH B BETTYL M D

Archibeld F Tie S releal Treatment of Bron chl ctals C ad MA J 10 4 1 107

After tracing the advances made in the surgical treatment of bronchiectas a the author summarises th dangers which arise following lobectomy concluded that these dingers might be obviated by bringing the root of the lobe after its exci ion into the skin woun I and fastening it entirely outside the chest. In this way the med astinum would be fixed a close I pneum th r x would be rendered imposible mediastinal flat ping with its serious effect upon the heart action would be pre ented and infection of the lung root would n t be communicated to the pl ura e en if a mediastinitis occurre i and the infected d integrated tump of the lung would be I schare I into dressings entirely outs le the chest In order to do this mobilization of the chest wall by ril resection vould be necessary in order to bring it in toward the mediastinum as the mediastinum can not be brought out to the uncollapsed chest wall. An operation in high an attempt was made to carry out

these ad as gave a satisfactory result Archit all 1 concludes his article by referring to the operate a rec ntly described by Craham which con sist of removing the dec sed lobe in several stages usually with a sol lering iron and after the in olved ports n of the lung has been exposed by nb resec It oul's seem probable Archibald writes that (raham's method will become the operation of choice and that lobectomy will be reversed for the exc pti nal case RALPH B B TTHE MD

Friedland M F Ti e Patl ological Physiology of Bilateral In umothorax (De path logs h
th lgr d lpp l tg Pn umotho) I gr d

The author attempted to determine experiment ally how long life may be maintained in bilateral pneumothorax Following bilateral thoracotomy on thirty two dogs, eight cats and three rabbits he determined the intraplieural pressure the depth and frequency of respiration the blood pressure and the quantity and quality of the respired air. The determinations were made for both open and closed

pneumothorax

It was found that the animals were able to endure blateral pneumothorax, it both openings in the chest wall were smaller than one half the diameter of both large bronchs. When the openings were larger death occurred within thirty moutes. The closing of one opening was followed by marked upproximent in the animal's condition. The closure must all vary to the condition of the control of the contr

The author made thoracographic determination with Mare's thoracograph. It is sound that in do ed or slightly open pneumothorax breathing was deeper quicker and more frequent than under normal conditions. In wide open hilateral pneumothorax

the respiration was superficial and suggested asphy a ration.

In closed bilateral pneumothorax the intrapleural air pressure was raised, but showed marked fluc

tuations

In the closed or slightly open pneumothorax the fluctuations were so great that they may ha e acted compensationly or e en hypercompensationly. After the resorption of the air that had penetrated into the pleura the pressure in the pleural space gradually returned to normal

The author attempted to d scover also v hether the lungs became entirely or only partially collapsed in open pneumothorax. By means of of dastroplethy, mograph he determined that complete collapse of the lungs occurred in all forms of open pneumothorax but was more gradual in st ghtly open than in wide

open pneumothorax. In dogs the quantity of expu ed air fluctuated in blattest pneumothorax being sometimers more and sometimer less than normal. The percentages of carbon disoulde and oxygen we e generally los recet The quantity of re pried air and the exchange of purpose of the fact the transport of the presentation was forecast or of the fact the trappartion was frequent.

With the establishment of a d uble pneumothorax the blood pressure was somewhat raised. Subse quently it either remained raised or again sank to normal.

In the auth rs opinion hs experiments bould increase the courage of surgeon in the performance of two types of operations no the radical bilateral one-stage operation for emplems and the establish meant of artificial bilateral pneumothorax

PITROW (Z)

HEART AND PERICARDIUM

Bransfield J W Pericardiotomy for Suppurative Pericarditis A n S 1 1974 lxxx 293

At a meeting of the Philadelphia Academy of Surg cy Bransfield presented an 18 year of I boy who two days previously had been stabbed with sharp pointed scissors in the left chest and since then had complained of dispured and pain

Examination showed an ab cess over the ninth in the inpipe line. Spontaneous rupture of the abscess was follo ed by improvement but the dispiration from the second in the dispiration was a found from the second in the total back was found from the second in the total back of the lung in the axilla. The Lay report was as follows. Percardial shadow entry of the second in the presence of fluid. The dispiration of tenth carriage to one of tenth carriage to one of tenth carriage.

Eight days later under local anxisthesia the fourth rib was resected close to the stermum the generathum was opened and r oz of pur was executed close showed the starbylococcus aureus hostber examination with the \(^1\) ray showed the percardium still greath of the finded Under general anxisthesia the fifth and sixth cartilages were resected the percardium was brought up into the sected the percardium was brought up into the executed. This fluid all the control of th

Consalescence was storm becau e the pattern as difficult to minage. During the first three needs the temperature range I from 100 to 103 degrees F there is no stored the pattern as out of bed. Examinations well the pattern as out of bed. Examinations are stored any cardiac disturbance. The staff is to receil any cardiac disturbance. The staff is to to be in regular work and \(\text{13} \) cardination of \(\text{13} \) cardination of a perior cardium shows the sace to be normal in 31 c.

In the discussion of this ca e report Robert's said that it is generally unnecessor, to existe the costal cartilages as a honzontal incision in the fourth or dith interspace usualls afford ample room for drain age and irrigation. He advised caution in relying upon the X tay findings in pericarditis as an en larged heart may stimulate an effusion.

DESPARD said that the exposure is improved by the vertical in isson and told of a case in which there vas an anomalous pleura's bich would have been opened if the horizontal incision had been used

opened if the horizontal incision had been used Jobbos, tated that he favors I ool's method of resecting the fifth sixth and seventh cartilages for exposure draining and irrigation as it is important to reach the base of the pencardium.

CLAYTON F INDREMS MID

Allen D S Intracardi c Surgery 1 h S c

Allen has perfected a technique by which intracardiac surgers can be done under direct vision by means of the cardioscope which gives a direct view of the interior of the heart without interfering with the circulation Formerly the pedicle of the heart was clamped and it was therefore necessary to complete the work to be done in two and one half grantes.

The cardioscope vas developed on the basis of the observation that when a heart was immersed in bloody fluid in a glass jar the details of the exterior of the organ could be so in whe even it came into con

tact with the glass

Approach through the wall of the left ventricle for operation on the mitral valve resulted in a mor tality of 50 per cent. The new approach is through the left auricular appendage a sort of thimble shaped structure thich comes off the side of the left atrium. This permits a good view and causes no symptom in the author's cases in which it was used there were no deaths. The method of introducing the cardioscope is described in detail. The immed ate and later effects of the procedure on the heart it elf were nephrible. Occasionally there were a fex extrasystoles. After the operation the cut in the valve remains open its entire length. The only disturbance noted in the vitem c circulate n is a slight lowering of the blood pressure duri g the operation

Of especial importance in consideration of the operation relief of mitral stenosis are the effects of regurgatation and stenos so of the mitral v le on the pulmonary circulation. The effect on the pulmonary circulation of mitral stenos and the difference be tween the pulmonary circulation of mitral stenosis mitral repurgitation and normal cond usos have been considered to the pulmonary circulation in mit al stenosis mitral repurgitation and normal cond usos have believes that a patient in marked mitral stenosis plus slight regurgatation would be benefited by changing the stenosis into a regurgatation

S C I YONS M D

ŒSOPHAGUS AND MEDIASTINUM

Carm dy T E The Treatm nt of Carcinoma of the Œsophagus with Radium L v go p 924 xn o

In the author's opinion the roentgen ray should be used with radium in the treatment of carrinoma of the exophagus as it has the advantage of pene trating further than radium

The method of treating with radium depends upon the operator. Radium has been applied of cit by to the growth from within by placing it under direct vision through the ecophagoscope by means of a stylet of wire or a rubber time by allowing the patient to swallow the tube with a thread or fierbild wire attached and by the use of 4 mison a separative with a house above and below, time.

Carmody reports a case in which radium was used to good advantage. The last two treatments were given by means of the Vinson brass apparatus

JAM S C BRASWELL MD

Lerche W Suppuration in the Posterior Med as tinum with a Repirt of Cases A h S g

The mediastinum consists of anterior and posterior divisions with the trachea forming the intervening partition

partitions the matter and a strangement of the description feets and and profit four cases of autorition of the posterior mediastinum in which the focus of infection was in the neck. He concurs with Schm it is observation that when an acute suppuration in the viseral or retroviseeral spaces has extended it to the posterior mediastinum the short set route b which the cavity may be drained is through the lover cerval region. He therefore makes an incision along the inner border of the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted mustle down to the stemochedomasted of the crophasts. The finger then readily enters the posterior mediantism by following the lateral aspect of the ecophagus.

The four case are repo ted in detail as to history operative procedure and results and the report is illustrated with roentgenograms. Three pat ents re

covered and are well one died

In the author's opinion the majo ity of cases of acute suppuration of the posterior ned astinum can be curred by the method of drainage d scribed. If the drainage in the neck proves insufficient in cases of chronic suppuration it should be supplemented by posterior mediastinotomy. S. C. Lyons, M.D.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Vogel C Peritoneal Adhesions (U b r B uchf il verwachsu ge) E g b d Ch O th p 9 3

This discussion is based chiefly on 26t articles in the literature dealing with the various aspects of peritoneal adhesions such as their anatomy their chinical and experimental pathogenesis and their prevention and treatment

Ninety-one per cent of adhesions due to laparot omies can be demonstrated by pneumoperationeum About a per cent neces state operation becau e of

the symptoms of aleus

An important contribution on the origin of adbesions was that of Wegener sho called attention to the fact that even the irritation of two superimposed layers of the paretal printioneum is sufficient to cause them to adhere to each other. Other factors responsible are intrape itoneal himorrhage mechanical and chemical injury of the endothelium in flammatory changes and foreign bodies.

Postoperative adhesions are best avoided by oper ating with minimal bleeding and damage to the tissues and the greatest no s ble speed. Immoderate cutting of the peritoneum is to be avoided. Ind ne disinfection of the skin is held respons ble for adhesion of the eventrated vi cera. Defects in the perstoneum in v hich perstonization is impossible should be covered with transplanted omentum. Of great aid in pre enting postoperative adhe ions is the early re establishment of intestinal mo ement One of the be t remedies 1 physosti min given in doses of o oor gm on the operating table Neo hormonal sennatin and peristaltin are other ef fective intestin I stimulants these allo must be given on the operating table. A gly cerm enema may be admin ster dailter the first injection. Heat should be applied by means I the thermophore the hot air cabinet or diathermy

Under no circumstance should oper tion be preceded by eatherss Old iread mass es should be removed by the admin trati n i astor oil but the surest simulant of prital is the normal content of the intestine. The medin d nd sitting positions are the surest of the strength of the surest made in bed recommended by Hori. In or estable able influence upon per stal is Vogel obtains good results from the use of guin arabic a a lubricant Solutions of sodium chloride hav not proved of much value. Human fait (human 1) must be tested the control of the surest of the surest of the surest check the greatly attempts have been in de to check the greatly attempts have been in de to check the greatly attempts that the surest of the lubric cting your solution with sodium citr's to

In every case all of the non-operative methods should be tried first but if the symptoms are severe

operation should be performed at the first sug-estion of intestinal obstruction

The prognosis is good in cases with band like adhesions and those operated upon early in the others it is always doubtful not only as regards the immediate outcome but allo as regards recurrence KLOSE (Z)

Rietti F Mesenteric Cysts of Adrenal Origin (Sulle
1st m se t riche di o igne ur e ale) A ch ital
d ch 19 4 2 75

Mesenteric cysts are rare. Only about 250 cases have been reported in medical literature. The author deals only with true cysts 1et those lined with epithelium or neithelium or neithelium or neithelium or neithelium or neithelium or neithor neithelium or sit of the ungental tract includes tho e having their origin in the adrenal. Refett has been able to find only five mesenteric cysts of adrenal origin described in the I terature. He reports a sixth case in which microscopic examination showed the presence of tissue similar to that of the adrenals. He concludes that this cyst had its origin in an embry once rest in the mesentery and was not connected with an accessory adrenal.

II 4 BRENNAN

Wildegans H A Further Report on the Surgical Treatment of Diffuse Infective Peritonitis

(Wit re Viti ilung u ber de chi u gische Bh nd lu dr nikto en diffus n Pertonitis) Arch f ki Chr. 923 cx. 239 This article which is a continuation of reports

published from Koerte's service during the years 1890 to 1910 gives the findings in 542 cases of diffuse pertionit's due to various causes 1 hich were treated during the period from 1910 to 1922

It was found that in the average case the absorption of bacteria from the peritoneal cavity vas greatest in the early stages of the condition. The demonstration of virulent organisms in the blood does not

necessarily mean an unfavorable result

In 380 cases the peritoniti had its origin in the appendix Of these 8.7 per cent were cured where as in the corresponding cases previously reported a cure was obtained in only 57.4 per cent. This improvement in results must be attributed chiefly to the fact that in the second series of cases early

operation was more often possible

In the early stage of persionans due to appendicits irrigation and syonging out of the persioneal cavity may be done but in the late stage irrigation is contra indicated. The claim that secondary abscess es are more common after irrigation is not justified Drainage of the persioneal cavity is usually unnecessary and often injurious. Tube drainage is

indicated only when in addition to diffuse pention its there are walled off collections of pix Late ab scesses do not disturb the postoperative course any more often when the abdominal cavity is closed primarily than when drunage; is established in cases in which primary closure is effected there is cases in which primary closure is effected there is the time. The collection of the collection of the treatment is shortered.

Primary puncture of the intestine and enteros tomy are necessary then there is excessive intes tinal pressure but primary and secondary enteros tomy are seldom i dicated. Enterostomy wards off intestinal obstruction not peritoritis and therefore should be done only when distention of the intestion.

tine dominates the syndrome

The second most frequent cause of diffuse peritoni tis in the cases reviewed was perforation of a gastric or duodenal ulcer which occurred in fifty three instances. A cure was obtain d in more than two thirds As a rule suture of the perforation and cover ung with omentum were sufficient. In cases of ulcer near the pylorus the addition of a posterior retrocolic gastro enterostomy is advisable. Circular resection of the stomach should be reserved for special cases The relatively favorable number of cures was obtained by irrigation followed by com plete closure of the abdominal cavity without tam ponade or draining The occurrence of late abscesses vas not fa ored by the omission of drainage. In peritonitis due to perforation of the large or small intestine the prognosis for cure was less favorable (of twenty four cases only ten were cured)

Also in the treatment of gynecological pentionities closure of the abdommal cavity without drainage was found supernor to drainage provided it was possible to remove or close off the source of infection. When there is perforation of the uterus with damage to the viscera the removal of the uterus is considered necessary only when pregnancy is well ad anced meeting of the dament. The somewhat more fire upon to currence of secondary abdommal abserves upon to currence of secondary abdommal abserves weighed by the much more favorable treatlis of tained with the properties of the supernoval and the su

In cases of pentionus due to pancreatitis drain age is necessary since in these cases the source of infection cannot be removed. In pentionitis arising from the b hary tract the g ll bladder should be removed primarily and a tube inserted in the stump of the cystic duct. If this is impossible the gall bladder should be dr incel. Irrustion of the ab

dominal cavity is advisable

There were six cases of pneumococcus pentionit is all of these occurred in httle g 1 a fact which speaks strongly for infection by way of the genit lia Of the emain ing case of general pentionities some were due to rupture of the bladder other re ulted from pleural empyema and others were of a metas tatic nature following angina polyarithnits or thyroiditis.

In eleven cases no cause could be determined either by operation or autopsy Harms (Z)

Mandd F Cryptogenetic Peritonitis (Best g zur Frage de kryptoge etischen Perit itis) D i h 21s h f Ch 10 3 cl xx 280

In the presence of certain forms of inflammatic of the pertinoneum the physician finds himself en tirely powerless. Foremost among these is cryptogenet; personatis the mode of origin of which is unknown. This condition includes (1) pneumo occus personatis (2) streptococcus personatis (3) genorphical affections of the personativities of genorphical affections of the personativities of genorphical affections of the personativities of the contraction of the personativities of the contraction of the personativities of the contraction of the personativities of the contraction of the contraction of the contraction of the cases in which no clue to the cause is found during operation at sutory or on bacteriological or histological eramination of

The most frequent excitant of cryptogenetic pentonitis is the Fraenkel Weichselbaum pneumococcus. The author found this bacterium twice. Both cases were fatal.

A case of streptoco cus personates associated with append citis oxyuraca without personation is also reported. This form of personatis is relatively fire quent in epidemics of sore thorat. In most cases the infection is conveyed by the blood stream or by swallowed secretions which find a particularly good culture medium in the inflamed gastro intestinal canal. The author reports one such case. A differential diagnosis 1 thout a bacteriological examination is jumpossible.

Mandi reports also a case of genorrheal periouits. As examination of the vagans and the urthra revealed only suprophytes and the vulva and vagans aboved on metroscopic changes operation was performed on a diagnos so of periouits d c to perforation. Under pressure the pass in the times of the control of the period of the pe

ortheral pertionitis h a smild cour e
That pertionitis may originate from the migrat on
of bacteria through macroscopically intact intestinal
wall was proved by two cases. To esplain this
occurrence the author made series of invest gations
on cases of carcinoma of the ectum in which is
prelim nary o permanent colo tomy was to be
established. The technique of the experiments was

pared with the infect one previously described gon

as follows

After eventration of the sgmod or descending colon circular fix ton of the series at the spateal peritoneum was perform d and a strip of gauze 5 to 8 cm in length was introduced deep into the pocket at the upper or lower end of the suture. In

many cases a strip of iodoform gauze of the same length was added The wound was almost hermetic ally closed with a sterile bandage and four days after the opening of the intestines the strips were removed and bacteriologically examined Patients admitted with ileus and those with dilatation of the portion of the intestine to be resected were excluded Great care was taken that the intestine

was not perforated by the sutures Nine such experiments were undertaken. In none were all of the strips found to be sterile. In two cases the inserted strips of io ioform gauze were sterile but the white strip gave po itive bacterio logical findings This is proof of the bactericidal pover of iodoform and of the low virulence of the bacteria The possibility that the white strips may have become infected from the exterior the author will not admit at least for four of the nine cases in which the bacillus coli was found. In these the mere manipulation of the intestines and the low grade circulatory disturbances and congestion made possible the migration of the bacteria through the moderately damaged intestinal wall. The histologic al changes in the involved portion of the intestine were as follows

The stroma of the mucous membrane showed a ri h infiltration of plasma cells and eosinoph les The epithelium acti ely secreted mucus The super ficial coat was almost intact no ulceration was ob served The submucosa was cedematously softened The lymph and blood vessels vere slightly dilated and surrounded by plasma cells and lymphocytes The muscularis was also ædematously softened and showed marked infiltration of eosinophiles outer layers were pushed asunder by a you g granu lation tissue which advanced from the serosa. The se tion showed no true serosa attached to the muscularis was a layer of young granulation tissue 2 or 3 mm thick which was rich in ve sels Copious fibrin excretion and leucocyte infiltration were

In conclusion the author calls attention to the pathogen c similarity of these cases to those of biliary peritonitis without perforation of the gall bladder The prognosis of cryptogenetic peritonitis is poor since there is no possibility of clo ing the portal of entry of the invading bacteria. In cases in which a fairly localized change is found in the intestine the wrapping of omentum a ound the intestine at this point might be of value

COLLEY (Z)

GASTRO INTESTINAL TRACT

Waljaschko G The R lative Po ition of the In testines and the Stomach as Determined by the Conditi n and Funct on of the Latt Syntoped D me dds Mg bed gtd den Zusta d nd d Fu kt If at h bnog Djd

From the findings of anatom cal research the au thor comes to the conclusion that according to the

condition of the stomach at is possible to distinguish three basic positions of the stomach with relation to the transverse colon the mesentery and the small intestine

These three types may be distinguished by infla tion of a relatively small stomach With increasing distention of the stomach the greater curvature is displaced forward and to the right and at the same time there is marked expansion downward. As the result of this change the splenic flexure becomes straighter The change may proceed so far that the phrenicocolic ligament becomes tense Simul taneously the entire transverse colon becomes dis placed downward and to the right the upper loops of the small intestine move from the left to the right and the remaining intestinal loops are displaced downward so that they fill the left side of the pelvis. The entire greater curvature which is bound to the transverse colon by the great omentum (gas trocolic I gament) is attached to the anterior ab dominal wall further to the left and right. In addition the colon is bound to the anterior abdominal wall by the mesocolon

As the omentum is very elastic it may be greatly stretched and will then spontaneously contract Therefore the transverse colon changes its position with every displacement of the stomach. The mesocolon also may be looked upon in its physiological movement as a passive organ which alters its post tion according to the extension or contraction of the posterior fold of the bursa omentalis. The post tion of the small intestine is dependent upon the level of the mesocolon If the loops of the small intestine are forced downward the upper loops will be displaced to the right and the lower loops down ward and more to the left

These topographical alterations in the organs have their clinical significance. The theory that arterio mesenteric incarceration of the duodenum is caused by the root of the mesentery cannot be correct since the latter is stretched by expansion of the stomach not downward but toward the right As a rule the occlusion is produced by kinking of the empty in testine at the juncture of the duodenum and jejunum due to displacement of the upper loops of the jejunum in marked expansion of the stomach to the meht

This condition is responsible also for the deviation to the right of the gravid uterus and of large tumors of the adnexa and for the rotation of pedunculated tumors which usually occurs from left to right. In a case of grot ing tumor or gravid uterus the loops of the small intestine are crowded upward and thereby displaced to the right they draw the tumor or uterus s ith them or cause a pedunculated tumor to rotate When as a usually the case they lie on the anterior surface of the tumor the rotation is from left to right only in rare cases when they lie on the pos terior surface is the rotation from right to left This agrees with clinical experience for torsion of a pedicle is usually from left to right

VON HOLST (Z)

Friedenwald J Gantt W H and Mortison T H
Studies in Fraction I Analyses 1 n Cli M d

The gastric contents are not homogeneous. In the cases studed first one shapily appraised show et a maximum variation of 46 degrees free and 54 degrees total acidity and a minimum variation of 2 degrees total acidity. These variations were not affected to any appreciable or tent by moving the tup of the tube about the stom and but mixing the contents by withdrawing into the bulb and re injecting four times 60 cc m of the hard the story of the contents and the story of

Fractions removed by the mixing method day after day at the same hour and under similar conditions showed but moderate daily variation. In 15 per cent of the cases there was no variation and 18 x per cent a variation of only 7 t degrees free

and 14 3 degrees total acid to

The metal bulb had no effect on the secret in of gasting juice. In sevenly six cases aspurated one day with the Rehduss tube and a few days later und r sunlar conditions with the Twalf tube the devia tion was generally small. When the Rehfuss tube was used the free and a eraged 26 5 degrees and the total and a 15 degrees while with the use of the green and 28 degrees pointing values. Were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values were 37 degrees and 28 degrees pointing values v

In tests of the Suppy uleer cure on gastra ac duty, the authors found that the average acuty y was in creased after treatment by 38 per cent free and 193 per cent total acudity. Cases were tested b for treatment and from four to 5 x weeks after treatment. After treatment 44 per cent showed an average acudity higher by 0 degrees free and of average acudity higher by 0 degrees free and 184 per cent an average could be supplied to the supplied t

The auth is conclude that if the ent re cont nts of the stomach are to be aspirated the mixing method should be used but they agree with Lockwood and Jacobson that as the t be t p rests near the pylorus small fract one give far ily accurate information re garding gastire secretion M. L. M. Soy M. D.

Walton A J The Differential Diagno is of the Surgical Dyspepsias P 11 n 19 4 cm 149

The author deplores the fact that very often means of surgeal dyspepus a short ut to dig gnoss is taken. The hi tory and the physical examination are often in order and an X-ray examination or more rarely a test meal is looked upon as the sole means of invest gat on Often a patient is referred with a note that gast is symptoms are present which have not vehicle to more it to week offend out of extraord with a most vehicle to more it to week offend out of extraord with a most vehicle to more it to week offend out of extraord with a more standard with offen make it evident that the patient has gall ston sor large abdominal time. The study of a case hould in

clude a physical examination a test meal an \ rav
examination and most important of all the history
Next in importance to the history is an \ ray in

vestigation carried out by a skilled roentgenologist In the case of a patient over 40 years of ace who has previously been fr e from symptoms of dispensia and who complains of indigestion present for more than three weeks carcinoma of the stomach must be considered. If in the case of a woman, the symptoms date back to early childhood the patient may be suffering from ptosis. The characteristic period icity noted in the symptoms of a gastric or duodenal ulcer are so d tinct from the long continued con stant slight discomfort of gall stone dyspepsia that in a typical ca e there is usually no difficulty more acute gastric lesion give rise to pain which although widespread in the epigastrium does not as a rule radiate beyond it. In the more chro ic gastric conditions the pain radiates widely to the back and shoulders The radiation will generally be more pronounced then the pain is severe and is increa ed when the older is adherent to the surround ing tissues. If the pancreas is involved the pain will often pass to the left shoulder whe eas involve ment of the undersurf ce of the liver usually at es rise to pain radiating to the right shoulder. In volvement of the small intestine such as is seen in cases of gastrojejunal ulcer is generally indicated by radiation downs and and to the left iliac fossa Appendiceal dyspensia will at some time gi e n e to pain radiati g to the right that fossa. The colo it pain associated with prosis usually radiates to the

lumbar region In the case of a ben an gastric les on the time of onset of the pain is directly proportional to the dis tance of the ulcer from the c rdiac orifice. In cases of carcinoma of the stomach on the other hand the pain is constant but may be ag arrated shortly after the ingestion of food. The di comfort of gall stones is characterized by the fact that it occurs im mediately after or even before the meal is finished In cases of visce optos a there may be a fullness immed ately after me is but generally the discomfo t is more pronounced toward the end of the day and th n th patient is tired and is relieved by the recumbent p s t on Carcinoma of the stomach rarely ause acute pain unless there is obstruction or invol ement of some other iscus Chronic ul ceration often gives rise to severe pain which fre quently a reli ed by pressure on the epigastrium In cases of duodenal ul er the p in is very often seve e enough to awak n the patient t n ght The colic as in cases of gall stones is of extreme seventy

nd not infr quently asso tated with collapse At the soft this nur will often occur irregularly and appear to have no defi the cause. Somewhat similar attacks 1 sting for a hot ter period not infr quently occur in chronic pancreatiti. But in such cases they constitute the contract of th

Two main types of vomiting may be di tinguished In one which is due to irritation of the stomach the quantity of vomitus is small and the vomiting is frequently repeated In the other which is due to some form of obstruction the quantity of vomitus is greater unless the obstruction is high up the at tacks occur at longer intervals and usually the re turned material contains food which was inge ted a relatively long time before Therefore very fre quent vomiting of a small quantity of material in dicates an acute gastritis such as is more apt to be found with acute ulceration than a chronic ulcer Les ons which give rise to symptoms of inflammation but are situated outside of the stomach will cause only infrequent vomiting hence comiting occurs only occasionally in cases of gall stones and ap pendicitis A duodenal ulcer practically never causes vomiting unless its upper margin involves the stom ach or it has caused obstruction. In ca es of ob structive lesions of the pylorus whether simple or malignant the quantity of vomitus will be large When in cases of hour glass stomach the proximal sac is small vomiting may be more fr que t and much less characteristic

The presence or absence of hamatemesis and melana is of very little aid in the differential diagnoss. It is never justifiable to wait for the pre ence of hamatemesis or melana in order to make a diagnosis of thorone gastric or duodenal ulcer.

Changes in the appetite are often of very great dagassites when we have person over a oy season of age has 3 mightoms of dy pepsia associated with loss of appetite it it ey probable that he is suffering from carcinoma of the stomach. On the other hand persons with duodenal uter und not introduced to the stand persons with duodenal uter und not and acute gastitis which more commonly simulate an acute gastitis which more commonly simulate an uter are much more apt to be associated with los of appetite. I has it is also present to sufficiently of the sufficient of th

Loss of weight is a sign to hich much at tention is paid unjustifiably. It frequently occurs late and should never he await d. It is by no means suggest e of carcinoma since a person with pylone steno is obstruction of the common duct or chron c pancreatitis may lose eight with start ling rapidity.

Jaundere associated with other symptoms of dispeptus is a definite indication of obstruction of the common bile duct but a differential di-gnosis between stone in the common duct chronic pancreat its and pressure upon the duct by an external less than the production of the symptomic and the symptomic and including an extension of the absence of jaund ce is out po nive e direct that the ommon duct is free

continued dyspepsia is much more apt to have an organic lesion of the stomach or duodenum whereas mans stout women past middle life who have had dyspepsia for a numb r of years are suffering from call stones.

As a habominal examination will often present no po time characteristic signs but the absence of physical signs is in tabel often of very great sign infeance. An enlarge I and palpable gall bladder a hard irregular tumor in the region of the stomach or a dilated stomach i this visible pentatiss are manifestly physical signs of great importance but it must be remembered that the absence of enlarge ment of the gall bladder does not prove that stones are absent.

An investigation of the gastic secretion is a test of very great value but may g veries to an erroneous impression unless it is combined with a carefully taken history and clinical investigation. Of the two methods a fractional test meal is of the greater value.

One of the most important aids in the diagnosis of dispergia is a careful X ray investigation but un fortunately the laity base received the impression that this is the only test and sa a result persons with a distinct and characteristic history of uler or gall stones often refuse operation because the X ray findings are indefinite or negative. A chronic uler on the posterior surface of the stomach may cause no characteristic pic or depression. Car accommon of the stomach not integru ntil gives ruse to a very characteristic picture but occasionally and especially if the growth is in the fundus of the stomach that characteristic picture is to reveal it to the form of the stomach that the X ray may entirely fail to reveal it.

Jackson C Pylo oscopy 5 g Cl n \ 1m 924

Jackson has found peroral pyloroscopy with an ordinary open tube a practicable procedure in the cases of infants and young children. In the cases of adults a lens system in the gastroscope is usually necessary.

At the Ph ladelphu Bronchosopic Clinic the exploration of the 1ft two thirds of the stomach as a common procedure. In the cases of very coung children the displacement required to borned the lorus over to the middle line for inspection with the gastroscope is easily accomplished by citernal abdominal manipulation by an assistant. That ermits inspection of the pilorus Duodenal folds are sometimes seen in adults as well as in children. In the majority of the cases the open tube escophago scope is used the stomach folds being examined in the collapsed state of the stomach. In some instances it i found advantageous to use the inflating gastroscope.

The author describes the case of an 11 month-old child who had swallowed a safety pin. The pin had lodged at the pylorus. It was removed through the gastroscope without the use of an anaesthetic

OSCAR E. VADEAU M.D.

pin F Pyloroduodenal Stenoses Due to Bill ry Lithiasis and Their Surgical Treatment (Les sténoses pyloroduodénal s d es 11 lath a e bl e leur tr itement chirurgical) J dech 1024 xxx 1

Cases are occasionally seen in which a condition of frankly biliary origin results in a true mechanical stenosis of the pylorus and duodenum creatrical adhesions enclosing calculi in the pyloroduodenal region etc. Such cases are not rel eved by chole existerioms.

They are not the ordinary gastropathes accompanying cholethiasis nor cases of pylone stenous due to the pressure of a gall bladder loaded with calculu in which removal of the full bladder would end the pyloroduodenal condution. They require a gastro intestual operation. Papin reports a case of this kind and review as lew others from the French intestature. In all the symptoms of the control that the properties of the state of the

The most common pathogenesis and that a sectated with the most marked complications is a section of the most marked complications in secdemun by dense adhesions and strangles the passage way by bands or fibrous conds. Such a perichole expitis often forms a veriable tumor causing great and the second of the second passage of the second companies of the second control of the second control of the second control of the second wall and by per tronly of the head of the transfer.

In the treatment there are three possibil ties (1) a gastro enterosion, alone (2) a biliary operation a lone of (3) cholecy steetomy with gastro-enterosiomy. In a case of enlarged gall bladder filled with call cult adherent to and compressing the pylorus and

duodenum cholecy stectomy is the best treatment. In obstruction due to percholecy stitus the choice of treatment will depend upon whether the condition is in the course of e oldusion or is the sequels of an old lesson. If the condition is cholecy stitus in process of evolution is streament by the usumethods may relieve the pilone stenosis but us a rule cholecy steeteemy is the operation of choice Meter this procedure the duodenopylone wall re sumes its supplices and permeabil ty.

In cases of residual lesions the indication is for gastro enterostomy with section of adhesions. Re moval of the atrophic g ll bladder is useless.

Mysal of the attornic g in blader's service of the A gastro enterestomy is to be preferred also when the cause of the stenosis is doubtful and when the patient's resistance is weak

The double operation cholecystect mv and gastro-enterostomy has rare indications. On account of its gravity it can be performed only when the patient is in a relatively good condition.

WAR PARKED

Poynton F J Higgins T T and Bryd on J M
The Treatment of Hype trophic Pyloric Stenosis Lant 1 9 4 cv1 5

If e authors c nelusions based on a series of fifty five surgically t eated cases and a ling experi ence in children's hospitals are summed up by the sentence. When once the diagnosis has been made operate at the earliest convenience.

Of the classical symptoms projectile vomiting visible perstalsis tumor and constipation the tumor is the most important. In discussing the examination the authors emphasize the necessity for complete relaxation on the part of the examiner as well as that of the patient. In the cases reviewed that tumor was demonstrated before operation in all the control of the properation of the part of the part of the correction.

The pre-operative care advised consists of gas tree lavage and the subcutaneous administration of saline solution and glucose. The limbs are wrapped in cotton and the operation is performed in a particularly warm room.

The surgical procedure recommended is the Ramm seld operation. The authors prefer introus oxide oxygen anexthesia. Frequently this is combined with local infiltration with noveaum and advenation and in some cases i in the call infiltration alone. Stress is laid on the importance of both of the chief of the control of th

The postoperative treatment consists in keeping the infant warm treating hyperpyrexia with ice caps and careful feeding. The feeding routine for both breast and bottle fed infants is described in detail.

In a series of fifty five cases treated during a period of four years the mortality was 10 per cent. This represents an average in the thirty f c cases treated during the last two years the mortal ty was just under 15 per cent.

The factor of paramount importance in the opera tye prognosis is the duration of the symptoms In the cases with symptoms for fifty days the mortality was 63 per cent in those with sympt may for from the fifty days it was 35 per cent and in those in which the symptoms had been p esent for less than twenty five d ys it ws 64 per cent for less than twenty five d ys it ws 64 per cent

Bed rida N V The Expe imental Production of Gastric Ulcer (P od sperim t le di l s ga tn) A h I I d h 9 4 lx 09

Bedsrida to use as the literature on the experiment all production of gastire ulter. In a number of experiments on rabbits the attempted to obtain a schemic lesson of the gastire mucous by producing paralys of the fine motor perfect the producing paralys of the fine motor perfect the solution of neutral producing paralys of the fine motor perfect the solution of neutral producing the solution of neutral producing the solution of the solution of the solution of the solution of the solution of the solution of the work was bear strictly aspectic conditions. The work was beared used at the producing the solution of the

about it and beneath it there would be a fibrous reaction

The experiments showed that small injections of as per cent neurine into the muscular or submuscular stratum of the stomach constantly produced a lesson which after a period of about eighteen hours con sisted in a loss of mucosal sub tance and after a period varying from seventy two hours to twenty four days developed into an ulcer

The ulcer produced involved the various strata of the wall It was surrounded and infiltrated by newly formed connective tissue and on microscopic examination showed the characteristics of a fibrous

ulcer

The cause of this lesion must be sought in the typical action of neurine in paralyzing the motor terminals in the muscles and the sensory secretory plexuses of the submucosa Therefore the experi mental ulcer was a true neurotrophic lesion

W A BRENNAN

husnetzoff N W Regurgitation of the Duodenal Contents into the Stomach in Cases of Gastric Ulcer (U be Z rueckwerf n des Duodenahnhalts in den M gen beim Ulcus ventri uli) Verhandl d R & Ch Kong Petr grad 19 3

A study of regurgitation of the duodenal contents into the stomach which is of great interest from the standpoints of physiology diagnosis and pathology was found to present many difficulties These were evercome only by the use of gastric sounds of small caliber which could be allowed to remain in the stomach The examination of the duodenal juices in the stomach included the macroscopic and chem scal determination of hile by the methods of Huppert Nakyama and Slowzoff Trypsin was determined by the serum tube method. The gastric contents were neutralized with sodium hydroxide and brought to o 2 per cent sodium carbonate Calcium chlorate was used as an activator. The juice to be examined was placed in the thermostat at from 37 to 39 de grees for twenty four to forty eight hours. The research was carried out in the Obuchow Hospital and in the chemical department of the Institute of Experimental Medicine

In all 150 examinations were made in ninety five cases Twenty five were repeated from two to five times The greater number were made in the cases of ulcer As a stimulant a 10 per cent oil emulsion was employed and when examinations were repeated fish soup water and I per cent soap solution were also used The gastric contents were s phoned off every fifteen minutes during a period of four or

five hours

It was found that there is no parallelism between the regurgitation of bile and that of pancreatic secretion. Hence the regurgitation of bile cannot be regarded as having the same s gnificance as that of the pancreatic secretion. When the cases are tabulated according to the regurgitation of bile it is seen that in the greater number the regurgitation began early (after three quarters of an bour one

hour or one and one half hours) and continued to the end Other common types were those in which the regurgitation was observed in the middle of the examination those in which it occurred intermittent ly and those in which it was noted in the first test and continuously thereafter or ceased shortly be fore the end of the examination

The interrupted type with increased acidity is often associated with pylone or duodenal ulcer The regurgitation in cases of gastric ulcer does not differ from that in other diseases of the stomach this indicates that the typical theory of the

origin of gastric ulcer is incorrect SCHAACK (Z)

Sherren J Disease of the Stomach and Its Sur gical Treatment Lancet 1024 cc 1 477

Perforation of a Lastric or duodenal ulcer is usual ly preceded by a long history of characteristic ulcer symptoms and the accident has often occurred while the patient was having ambulatory medical treat ment Sherren believes that surgery will effect a cure in the majority of cases and that patients who remain without symptoms for two years after opera tion never develop them later. He has found that in the rare cases of severe symptoms six eight or more years after operation the first two years were never uneventful The results of partial gastrectomy for chronic gastric ulcer are remarkable he has never known secondary ulceration to follow and the after history seems to be singularly smooth

There is both clinical and pathological proof of the healing of ulcer In all of thirty-one cases of chronic duodenal ulcer and twenty five of chronic gastric ul cer examined up to twelve years after operation the ulcer had healed Occasional failures to obtain a cure will continue to occur until we know definitely the

cause of gastric and duodenal picers

Acute ulcers of the stomach frequently cause pain comiting and hamatemesis especially in young The c ulcers cannot be seen on external examination of the stomach and often cannot be found when the mucous membrane is directly in spected during life or after death. The author be lies es that acute ulcer is often followed by the chronic variety and the latter by carcinoma. He states that operation should never be performed in acute cases with hematemesis because the acute ulcer cannot be d alt with directly gastro enterostomy will not check the bleeding and operation adds enormously to the mortality The treatment should consist of rest the administration of morphia and plenty of water by mouth Operation should be undertaken in a quiescent period when removal of an infected gall bladder or appendix will effect a cure

The relationship between acute ulcer the relap sing ulcer and the solitary chronic round ulcer is discussed The latter is the well known penetrating ulcer which often in olves the pancreas. It rarely causes bour glass stomach but is the type that is the precursor of malignant disease. The relapsing type is more common in women and gives rise to hour

glass deformity

Hourgla's stomach is rarely followed by car cinoma and is relatively infrequent in men. In fact ulcer is apparently becoming a more common disease in women

There is evidence that g stric and duodenal ulcer are often familial Probably this is due to the fact that disease of the appendix tends to run in families

Secondary ulceration after operation may be due to several causes but a e know that chronic ulcera tion does not occur if operation permanently abolish es free hydrochloric acid in the gastric juice. The author b lieves that the effect of gastrojejunostomy is physiological or chemical instead of purely me chanical In the de elopment of secondary ulcers increased gastric acidity is a most important factor These lesions are very rare after operations for gastric ulcer Prevention of secondary ulceration is favored by the removal of all foci of infection the avoidance of the use of unabsorbable suture material and the jejunal clump and the formation of a large anastomosis at a d stance from the pylorus

Basset A The End Results in Ca es of Perforated Ulcer of the Stom ch and Duodenum (Les résultats él gnés dans les ul è es pe f és d l estomac et de duodé m) B ll et mêm Soc nat d ch d P 10 1 1 2 1

Basset has collected thirty case reports giving the results of operation for perforated gastric or duode nal ulcer The period of observation ranged from one to eighteen years. The end result was excellent in every respect in 66 per cent mediocre in 24 per

cent and poor in 10 per cent In all of the five cases in which the lesion was situated on the anterior wall of the stomach the result was very good. In the eight cases in which the ulcer was on the lesser curvature the result was very good in four fair in three and poor in one. In the cases of pyloric perforations it was very good in t o and fair in two In the thirteen cases of duoden al ulcers it was very good in nine mediocre in two and poor in two

The results with regard to the type of operation are shown in the following table

Res It Cases G od F ir Poo Operat n Sumple bin 1 fpe frato 3 Burial i perfor t n d gastro enterost my 3 Smples tre S tu e and g stro-e t rostomy L cision a d sut re utu e and gastro-e t r ost my Thermocauterization a dis t r Pylo ctomy

In the twelve cases in which immediate gastro enterostomy vas done a good result was obtained in nine and a mediocre result in three. In the eight een other cases the result was good in eleven medi pere in four and poor in three

The manner in which the stomach is evacuated in patients with a gastro enterostomy was deter mined in ten cases (nine cases of primary and one case of secondary gastro-enterostomy) The gastric contents passed exclusively by the gastro-enteros tomy in five and chiefly by this route in two

From this series of cases it appears that the site of the ulcer is of importance in the end result Next to cases of ulcer of the anterior wall in all of which the outcome was good the most favorable results were obtained in cases of duodenal ulcer. In the cases of ulcer of the lesser curvature and of the pylorus the results were satisfactory in only so per cent and in those of callous ulcer they were good in only to per cent

The operation giving the best results is suture with One fourth of the patients operated upon have

immediate gastro-enterostomy

had some complication such as hamorrhage stenosis peptic ulcer or repeated perforation which neces sitated further surgery but after the second opera tion recovery was complete and lasting

W A BRENNAM

Cohn L. C.: Pylorectomy Followed by Gastroduodenostomy A S e 1024 l 12

The author calls attention to the Locher method of gastroduodenostomy and to the infrequency f its use in America Since the technique is compar tively simple and the results are usually excellent he considers it advisable to bring it again to the attention of the American surgeon. In brief the technique used by Cohn is as follows

The stomach is freed along the greater curvature down to the duod num and the stomach pyl rus and duodenum are freed from the pancreas. The pyloric vessels are I gated and the duodenum is cut across care being taken not to injure the duodenum with the clamp The stomach is turned down and to the left with removal of the gland bearing area and

I gation of vessels

If the duodenum can be sutured to the posterior wall of the stomach without tension kocher's operation is done. An area on the posters r wall above the site of section is chosen and the serous coat of the duodenum is sewed to the serous coat of the stomach with silk An incision is then made in the wall of the stomach down to the mucosa and the wall of the duodenum is sewed to the wall of the stomach with silk The mucosa of the stomach is then cut through and se ed to the duodenal mucosa with a suture running all the way arou d and the previous sutures are completed. The stomach is then divided between clamps and closed in the JOHN A WOLFER M D usual way

Balfour D C Pa tial Gastr ctomy for Gastrojejunal Ulcer A S g 19 4 la i 186

Of greatest importance in surgery for peptic ulcer is provision for adequate d amage of the stomach This principle accounts largely for the popularity

of gastro-enterostomy. The results of gastro enterostomy are usually sati factory. The most serious sequel gastrojejunal ulcer occurs in about 2 per tent of cases. The cause is uncertain but the condition is easily recognized. Early operation is safe and satisfactory but postponement is dangerous Several methods of treatment have been employed in the Yano Chine such as (c) excission of the ulcer when it is small youting off of the pastrotories of the lesson closure of the openings in the junum and stomach and pylorbiasty and (3) partial gastrectiony which has distinct advantages and is the operation of choice when it can be asfely performed.

An course of pre-operative treatment is usually of benefit and its advisable to perform as much of the operation as possible under ethylene or local anaesthesis. The nanstomosis in first mobilized the gastro enterestomy disconnected any induration in the pignum is eriesed and the opening in the pignum is closed. If there has been a fistula into the colon this is closed and protected as well as possible by wrappung omentum around the invol. of segment of bowl. The stomach is then resected to a point of the colon this continuity is restored by and gastro-interitial continuity is restored by hat ever method is best in the particular case

The author has performed partial gastrectomy for gastrojejunal ulcer including its complications colon fistulate etc. in twell e cases with no mortality

Michon and Magrou Spontaneous Regeneration of the Ga tric Nuco a After Part 1 Resection (Regé rat n pont é de l muque gasti q e près ré tion part 11) Pr s med P 19 4 x 11 80

The authors carried out experiments to deter mine whether partially resected gastric mucosa is capable of spontaneous repair and whether the heal ing is a true regeneration of the mucosa

It was found that in the dog a lesion made sir gically in the bealthy gaintre mucrosa becomes re paired spontaneously. This repair is rapid what ever the size of the lesion being complete by the rad of seven months. Retraction of the musculature of the part is the sprocess. It is a true regueration of the part is the sprocess. It is a true regueration of the part is the sprocess. It is a true requeration of the part is the sprocess. It is a true requeration of the part is the sprocess of the sprocess of the secretory calls-de sac appear.

Beneath recently repaired portions of epithelium the muscularis mucosæ is defective

Chee er D Person | Expe ienc with Ca clnoma of the St m ch B : M & S J 9 4 4

Many physicians are very skeptical regarding the curability of carcinoma of the stomach and this behef is based more or less soundly on unfavorable experiences. Public education regarding the common phenomena of other varieties of cancer has led

to earlur operation. Even when the lesson announces stell as a visible tumor or ulceration associated with pain bleeding or unnatural discharge a certain percentage of so called cures may be confidently anticipated. Breast cancer and malignancy of the lip and interior as hopeless as formerly because today they are diagnosed and treated at an earlier state.

called a seage of cancer of the stomach the surgeon is dealing with an organ which should offer a higher remove of cares. Many partial and total gis more than a season of the season of

The natural history of gastric cancer is the history of cancer elsewhere in the body Beginning as a strictly local lesion it spreads by direct invasion of the surrounding tissue Later lymphatic and blood stream dissemination may render the case inoperable. In 77, per cent of sixty seven patients operated on at the Peter Bent Brigham Hospital Boston the liver was free from metastases but on account of lymphatic di semination only half of these patients could be given the benefit of a radical resection. Autopsy records from the same hospital showed that of the patients dying of gastric cancer without operation 22 8 per cent vere free from hepatic metastases Accordingly early liver in volvement is not responsible for the failure of radical operation to effect a cure

In a senes of ago cases treated at the Peter Bent Bragham Hospital during the first ten years of its ensistence a radical operation was possible in only 97 per cent vet in more than 50 per cent of these the duration of symptoms prior to admit sion was less than 2m month. It is the old story of fatal delay in resorting to cuative measures. The symptomatic mandiouseus of gastine cancer is almost unbelieveable. When attacked by cancer the stom ach often remains silent during the fateful personal content of the story of the surpression of the

The author reports six cases all with unusually short duration of symptoms such as weakness anorevia weight loss pallor backache and general debility Such symptoms do not narrant a diag nosis of the true pathology. When the classical picture is established it is usually too late for opera tive interference. To remedy this serious situation it is important that a careful and thorough exam mation be made of all patients complaining of belching discomfort after the ingestion of food anorexia nau ea vomiting and weakness. By far the most important single diagnostic method is examination with the fluoroscopic screen and a study of \ ray plates Dependable evidence may be obtained in this way in as high as 97 per cent of the cases

Of 216 put ents at the Peter Bent Br gham Hos pital whose data were satisfactory 124 (52 5 per cent) were found inoperable on physical examination and twenty four more (to I per cent) were found in operable at exploratory operation Fifty three (22 4 per cent) were subjected to a nallistive operation for obstruction or perforation in these cases the mortality was 13 2 per cent. In only twenty three cases of the series was a radical resection done Twenty patient survived four lived less than one year six lived from twelve to eighteen months two lived from two and one half to four years and one lived seven years. In three cases (r 2 per cent) a five year cure was obtained

Of the author's twelve patients subjected to the radical operation for pastric cancer, two died from the operation six died of recurrence after an aver age period of twenty three months and three are alive and well seven years and three months six years and six years and three months respectively after the operation. A six year apparent cure was therefore obtained in 25 per cent From his limited experience Cheever concludes that gastric cancer is not so hopeless as is commonly believed

IOHN W NUZUM M D

Haberer The Indications I r Surgical Treatment of Malignant and Benign Lesions of the Storn ach and Duodenum Ba ed on 1432 Cases (Ind k tion t llu g fuet d chiru gi che Beh nd lu g l i boesartig n und gutartig n Lekrank gen des Mag s und Duoi uns auf Gru d o Erfahru g n n 1,43 gene Faell n) S mml Zwo gi Abka di a d C b d Jerd ngs w Si f u ch i h kh 1923 1 5

Haberer has operated upon 1 432 cases Of these operations 1 057 were gastroduodenal resections 303 gastro-enterostomies and seventy two pylonic ex clusions Of 1 223 operations for benign lesions (al most exclusively ulcers) ozo were resections seventy two were pylonic exclusions and 222 were gastro enterostomies For carcinoma Haberer per formed 128 resections and eighty-one gastro enteros tomies The latter were almost always posterior operations with the shortest possible loop pyloric exclusions were done by the ton Eiselsberg method The Billroth I method vas employed in 520 cases (in forty three for an end to side anas tomosis between the transverse gastric inci ion and the descending portion of the duodenum after pre vious blind closure of the end of the duodenum) The Billroth II operation was done in 410 cases the Reichel Holmeister modification being used in

the majority Haberer is decidedly radical in his treatment of carcinoma of the stomach performing a resect on even in the presence of moperable met stases in

the glands The causes of death follo ving operat on for ulcer are (1) loosens g of the sutures (2) hamorrhage (3) bo a atrophy of the heart (4) diseases of the lungs and pleura and (4) subphrenic abscess Loos

ening of the sutures may be due to errors in tech nique resulting in insufficient nutrition of the wound surface or hemorrhage within the suture line. It may occur also even when the suturner is done correctly Therefore the author recommends sepa rate suturing of the large vessels of the mucosa. In very rare cases of extremely cachectic patients the suture may give way in spite of correct technique because of faulty union and healing. The fact that loosening of a primary suture occurred only three times in Haberers 1432 ca es shows that this disastrous complication is extremely rare. The digestion of a primarily healed suture by activated pancreatic secretion following injuries to the pan creas during operation is a grave danger. In such cases the clinical phenomena f separation of the suture line do not appear until after f om ten to fourteen days or even longer and during this time the patient appears to be progressing favorably lather necrosis of pancreatic fat occurs soon after operation or circumscribe lab cesses develop very slowly especially around the duodenal stump. Such abscesses are usually latal

Hamorrhage into the gastro intestinal lumen may be very dangerous but is rare if the technique of sulure is correct. Haberer has had only o e case in which such a hamorrhage caused death. In ten cases a second I parotomy was necessary either on the same day or the next day. Healing was obtained

in these cases by a second suture Cardiac and pulmonary complications which were yers rare in Haberer's experience may result from aspiration during narcosis or gastric lavage chilling of the viscers or previously present tuberculosis or bronchiectasis The theory that pulmonary com plications are more frequent after operations per formed under general anxisthesia than after those performed under local anæsthesia is not substan tiated by the author's extenence. On the contrary the mo t se ere pulmonary complications fol lo ed the use of local anasthesia. It must be borne in mind however that he used local anasthes a only then complications such as gotter and disc ses of the heart lu gs or k ineys were a ready present The bel of that greater d fliculty in clearing the air passages is experienced after narc sis was also re futed by Haberer's observations. He found that after local anasthes a patients complained for a considerable length of time of pain in the reg on in which the arms hetic w s injected This was d's tinct from that due to the wound and had an un fa grable influence on expectoration

Slight postoperati e metapn umonic empyema has a relatively good progno is When it is recog nized early it can be cured by puncture. The prog nosis of pleural suppu ation con eyed by the lymph essels from an infected perit neum is much less favorable especially in cases of carcinoma. The author has never seen this complication after re section for ulcer but it occurred once after gastro enterostomy in a case of large callous ulcer of the duodenum

Subphrenic abscesses due to incorrect suture have a very unfavorable prognosis but that of abscesses developing from injected hamatomata in which the suture remains intact is much more favorable. Since there is always the danger of pancreatic complica tions in cases of ulcers which penetrate deep into the head of the pancreas and involve the bile pas sages only a gastro-enterostomy should be done in these cases Haberer obtained the best immediate and permanent results with the Billroth I method but does not maist on this procedure. If in the resection of a duodenal ulcer penetrating the pancreas it is impossible to obtain suitable serosa on the posterior wall the Billroth II method or Haberer s modification of the Billroth I method (end to side anastomosis of the stomach and duodenum with blind closure of the end of the duodenum) should

Haberer is not satisfied with the results of trans verse resection of the stomach. In no inconsiderable percentage of his cases there was a recurrence of trouble such as increased acidity pylorospasm and possibly ulcers which had escaped detection. When patients who have been subjected to the Billroth II operation complain of dyspepsia soon afterward the cause usually lies in the altered chemistry of the stomach (flow of bile into the stomach) The end results in these cases however are good Severe and lasting symptoms of dyspepsia with anacidity may be due to a small stump very extensive re sections are therefore inadvisable Peptic jejunal ulcer following the Billroth II operation is not a very rare complication as was formerly assumed Ha berer operated on five such cases in two he himself had performed the primary resection. The best results were obtained with the old Billroth I method The new ulcer symptoms sometimes observed by other surgeons following the Billroth I operation are due to old ulcers overlooked at the first operation

Stenosis at the site of anastomosis which some times follows the Billroth I procedure is also to be attributed to faulty technique. In a large percentage of pyloric exclusions done according to the you Esselsberg technique there is danger of a subsequent peptic ulcer of the jejunum however favorable the immed ate result. Haberer reports thirteen such ulcers in seventy two cases of pylonic exclusion That simple gastro enterostomy does not in many cases bring about the desired result is shown by the fact that in Haberer's cases in which resection was done gastro-enterestomy had been previously performed by other surgeons. Haberer warns against performing gastro-enterostomy when the findings at operation are uncertain or negative. In such cases it is usually followed by a continuation or an in crease in the symptoms

Haberer claims that carcinoma on an ulcer basis is rare but states that in 5 per cent of h s cases in spite of his extensive experience it was impossible to decide at operation whether the lesion was a carcinoma or a callous ulcer. In peptic ulcer of the jejunum he obtained the best results from ye. Y

radical resection For cases of perforated ulcer he advises resection if it is possible BRUETT (Z)

Jackson C A Chalk Talk on Gastrostomy S g

Although Jackson has never performed the opera tion under discussion he has seen the results of more than 1 000 gastrostostomies performed by other

Before gastrostomy is performed the ecophago scope should be passed to determine the extent of the lesion and treatment with the use of this instrument should be tried Cases cured by dilatation are cited

Gastrostomy is contra indicated in all cases in which a cure can be obtained quickly by esophago scopic methods alone provided the patient is not

in an extremely poor condition

1 Am 1924 IV 8

Æsophagoscopic examination should precede every form of treatment except gastrostomy for water starvation. Blind methods undertaken with our knowledge of the condition of the essophagus are exceedingly dangerous. Vearly every pathological museum has one or more specimens showing urso phageal perforation due to blind bougnage.

OSCAR E NADEAU M D

Skijarow I Volvulus of the Small Intest ne Six teen Cases (Ueber den Volvulus des Duen d 1111s uf Grund von 16 Eigenbeobachtungen) 1 k dl d R Ckr K g Pt grad 1923

Volvulus of the small intestine i one of the most frequent causes of intestinal occlusion in Russian peasants

The high mortality after operation is due to the text that operation is frequently performed late In addition to the signs of other types of intestinal cociasion a splashing sound is noted during the first few days this is pathognomonic. A large quantity of nater collects in the vertuded intestine the body becomes drained of fluid and the effects of the tomas are increased. The mortality is greatly the tomas are increased. The mortality is greatly the tomas are increased from the mortality is greatly the tomas are increased. The mortality is greatly the tomas are increased from the mortality of the first forty-gipted. He admitted the intestine should be empty.

Before and after operation infusions of salt solution should be given to combat the dehydration. To prevent intestinal paralysis—the subcutaneous

administration of eserin is indicated
In the discussion of this paper ABRAMOVITSCH

(Home)) agreed with the author regarding the fre quency of intestinal occlusion in Russia but warred against his method of smoothing out the intestine to empty. It Instead be advocated puncture of the intestine of inecessary. He holds that eventra tion of the entire small intestine is injurious and unancessary.

DIEDERICHS (Simferopol) recommended fixation of the flexure in cases of volvulus

ROKITZKI (Petrograd) reported a case in which after fixation of the flexu e according to Pikin s method a second laparotomy for occlu on was necessary The flexure was then resected by Gre kow s method and a cure obtained Rokitzki also prefers puncture of the intestine to smoothing it with the fingers

MIKULI (Moscow) stated that he d sapproved of reefing sutures in the flexure and anastomosis be tween its two limbs since in cases so treated the volvulus frequently recurs He believes the flexure

should be resected OPPEL (Petrograd) agreed with Mikuli

HESSE (Petrograi) state I that evagination by Grekow's method is correct theoretically but in practice leaves much to be desired. In this connec tion he called attention to the fact that it is not yet known how much of the mesenters can be ligated off without exposing the intestine to the danger of gangrene. In one of his cases the entire flexure became gangrenous as a result of volvulus. Following evagination the nationt's condition progressed favor ably for a time but death occurred at the end of six weeks from gangrene at the end of the descending colon and an abscess between the rectum and the

the stenosed area evagination is almost impossible Hesse reported a fatal case of this type SLATSCHEWSLI reported that in volvulus of the flexure he always establishes the anastomos s between the transverse colon and the flexure or be tween the limbs of the flexure. In all of his cases the flexure was very large and resection presented too great a risk In seven cases treate i in the manner described the result was successful in another a

descending colon. In cases of neoplasms of the

flexure with stenosis and marked stasis in fr nt of

recurrence develope i

SCHAPIRO (Minsk) advocated emptying the small intestine by puncture. In volvulus of the sigmoid flexure he introduces an ordinary rectal speculum high into the int stine for the evacuation of gases and intestinal contents

TEPLIN (Petrograd) stated that he had operated once according to Pikin's method with a successful

result AMBRUMIANZ (Beshiza) reported that among the most frequent causes of volvulus are adhesions due to inflammation of the appendix

Wollow (ladrin) stated that I ikin s operati n i not physiologically correct as it immobilizes a mov

able organ

GREKOW (Petrograd) proposed evagin tion per rectum In this procedure great care is necessary in the ligation of the mesosigmoid as our knowledge of the vascular supply in pathological cases is un satisfactory. The inflamed and twisted me entery in volvulus prevents pos tive orientation hence the ligation must be made close to the intesti e The portion of intestine freed from the mesentery should be invaginated so far into the pelvic colon that a portion of it with its mesentery disappears into the latter. In the abdominal cavity the fold must be fastened by interrupted sutures. The e aginat d portion of intestine including both the outer and

inner cylin lers should be cut off in I fastened to the rectum and anus Grekow has used this method in the treatment of traumatic mury of the sigmoid vol vulus Hirschsprung's disease and neonlasms. The poorest results were obtained in cases of volvulus

I turn stated that his operation has not been per fected Headmitte I that in many cases reefing sutures are unnecessary fixation alone being sufficient

SKLIAROW added that he did not ins at that langrat omy for vol 'ulus of the small intestine be perf imed entirely under local anasthesia but when with local an esthesia morphine and ether are used the des red

result may be obtained without pain Smoothing out the intestine between the fingers and eventra tion he believes are not injurious. After eventra tion respiration and the heart act on are improved

REIN (Moscow) who concluded the discus on stated that like Grekow he makes a large incision and brings the intestine out as in this manner orienta tion is facilitated. In volvulus of the flexure he resects both sides if gangrene is present or sus pected. If the intestine is healthy he makes a longitud nal incision into the mes sigmoid and sutures this incision transversely. In this manner the mesos or old is shortened and the distal extremities of the t o limbs of the flexure are moved further apart

Fin te r II Is Exten ive Resecti n of the Stom ach in Duoden I Ulcer Allowable or Not? (Ist he u g deh te Res Lt n d s M g ns be m Ukus duoden laubt od n cht?) Ze t albi f Ch 931

Five years ago Finsterer advised the removal of a large part of the stomach in the resection of duodenal ulcer in order permanently to eliminate the hyper acidity and thereby decrease the chance of the for mation of a peptic ulcer This proposal met with energetic opposition but Finsterer still adheres to his previous conclusio s. His conviction is based chiefly on his excellent results-not a single peptic ulcer of the terunum developed in 213 cases of duodenal resection-and on the findings of the histologic examination of the resected specimens

In the great majority of the cases the stomach showed the signs of a severe chronic gastritis throughout its entire extent From this f ct Finsterer dray s the conclus on that even resection of the antrum is not sufficient to cause healing of the intestine since this procedure frequently leaves behind a severely damaged g stric mucosa which m y be responsible for the recurrence of a peptic ulcer of the jejunum in pite of the resection of the pylorus and antrum In support of his contention he c tes the fact that Konjetzag found a severe chronic gastritis in all of his cases of gastric resection

The patient suffers no note orthy inconvenience as the result of the extensive e tirpation of the stomach. In time the sensation of the so called small stomach completely disappears provided the anastomosis between the stom ch an I jejunum is DENCES (7) suffic ently b a l

Von der Huetten F An Experimental Contribution on the Etiology of Peptic Ulcer of the Je junum (E penm nt ile Be tag ur Aetol e d Ulcus pepticum jum) Beil kl Ck 9 3

CXXX 20

The author first reviews the vanous theones and anced in the literature regarding the nature and tology of peptic ulcer of the jojunum None of them is entirely satisfactory as exceptions have been found to all. It may therefore be assumed that a number of injurious influences must act with the companion of the period of th

From his investigations the author concludes that the pylone welling resulting from the von Eisels berg technique favors the development of peptic ulter of the pinnum and that therefore this procedure should be abandoned. In experimental animals an ulter does not develop after gastroenterostomy if the p lorus is open. Ob er ations in climical cases agree with these inidings.

BODE (Z)

Palugyay J The Roentgen Diagnosis of Peptic Ulcer of the Jejunum (Zur Roentgend ag ose des Ulcu pept cum jejuni) Det h Zi ch f Ch 921 (Zixxi 203

The author calls attention to the technical difficulties in the reneatgen diagon is of peptic ulcer of the jeunum and adds a new sign to those altready described in the hierature. This sign is a spastic retraction of the gastine wall in the region of the anastomosis which so not relieved by papacerin. By presence of a peptic silver of the jeunum in the presence of a peptic silver of the jeunum in the presence of a spassim which is relieved by papacerin.

The direct \(\text{Tay}\) signs of peptic uler of the pulmum are an uler nuche and a gastrootic or pulmunos are uler nuche and a gastrootic or pulmocolc fistula The ulercet signs which are in pulmocolc situla. The ulercet signs which are in expendent of the sit of the ulercer are an uler diverticulum and a point which is painful on pressure The indirects a pumpions observable in case of gastro pipunal ulerc are diminished or absent function of the gastro intestinal anastomoss and spastic retraction of the gastro intestinal anastomoss and spastic retraction of the gastron exhibits as not relied of by pigasverna anastomos which is not relied of by pigasverna anastomos which is not relied of by pigasverna ulercer distant from the anastomosis are faulty permit uler distant from the anastomosis are faulty permit alias of the pigunum in the region of the first coil and absence of Kerkrugs folds in the region of the efferent loop of the anastomosis.

The article is concluded with the report of nine cases observed by the author DE CKS (Z)

kennedy J P Tumors of the Intestine Causing Intussusception South II & S 924 lixry 43 Highsmith J D Hoccarcal Intu susception in an Adult Due to an Intestinal Tumor South II & S 194 lixry 43

Kennedy reports two cases of abdominal distress and vomiting in which operation revealed an in

tussusception caused by a tumor. In the first case the tumor was a hooma the size of an apple in the wall of the execum 2 in above the appendix. Resection of the execum was followed by a good recovery. In the second case the tumor was a lei omnosarroom of the jepunum.

Highshith reports a case in whi h adenomatous polyps attached to the ileum about 2 in above the ileucated valve caused intussusception

Resection was done MARCUS H HOBART MD

Stewart W H Some of the Pitfalis in the Roent

genographic D agnosis of Colonic Lesions with Suggestions as to the Proper Method of Over coming Them Am J R nlg ol 1924 x1 168

The common errors in the roentgen diagnosis of rolonic pathology are due largely to

1 Failure to make a preliminary examination before the colon is filled with the barium enema 2 Difficulty in differentiating spasm from true disease

3 The overshadowing of a lesion between haus tral contractions by a distended colon

4 Filling defects caused by intestinal contents
5 The variation in the findings at different stages
of filling

of mmng
6 Failure to recognize the pathology on account
of the extreme mobility of the lesion

7 O ershadowing by the barium enema of a lesion within the lumen of the colon which has caused no deformity

With the hope of overcoming these errors Stewart suggests certain improvements in technique. I roper prel minary preparation of the colon is essential Perfect relaxation of the patient should be induced A roentgenogram made before the barrum enema is given may re eal a lesion which might be over shadowed by the enema Care should be exercised not to force air into the rectum ahead of the enema The irrigating can should not be raised more than o in abo e the level of the anterior abdominal wall The barrum enema should be allowed to flow in gently under constant observation until it reaches the cacum when the injection should be stopped Any unusual roentgenoscopic findings should be verified by a number of roentgenograms Further examinations should be made after the patient has been instructed to e pel a moderate amount of the enema and again after the colon has been emptied as completely as poss ble. In many instances it is advisable to confirm the findings made with the enema by observations following the barrum meal

In cases in which the lesion is within the lumen of the colon and does not cause deformity the bir ium enema or enhadous the growth so that it cannot be recognized by the ordinary methods of examina tion. Lesions in such cases can be detected by a method suggested by Fischerof Frankfort Germany. He first gives the patient a moderate barrum enema and then distends the colon further with air both of which are administered un ler roentgenoscopic control. If the suspected growth involves the trans

verse or pelvic colon the patient is allowed to expel a portion of the enema before the air is injected With this method it has been found that the most satisfactory information can be obtained in the lateral resistions

When all other methods fail to give the desired information p eumoperatoneum may be u ef to advantage

About II arres M D

Romanis W II C.: Carcin ma of the Col n

Carcinoma of the colon is both common and in substances. The colon and carcin most commonly in the pelvic colon and carcin i ut not infrequently in the splenic flexure the transverse colon and the desc nd ng colon.

Microscopically the lesions are use if) the true columnar type of carcinoma. Clinically, they may be classified as the annular or mg type, the proliferating or fungating type, and the hard cragger type. The type influences the extent and is epo of the operation since the proliferating type is the least malignant and the hard is too the most mal grant

The diagnoss is usually made at operation f a actue or chronic obstruction. Eather speptons which should justify an exploratory operation in middle aged patients are cold by pain and un comfortable sensations after meals associated with loud bothory gim a history of irregularity in the action of the intestines and blood in the faces. N ray examination is usually of no aid in the diagnos is

Symptoms of obstruction are usually of gr dual onset and without acute randinelations such as pain and vomiting. The pulse is good and the tongue clean but the gradual progressive abdominal is tention points to the senousness of the cond to

In considering the treatment the author civosites cases into those with temovable or irremovable obstruction and those without obstruction in eases of obstruction and experiment to radical an operation in cases of obstruction as he belie es that unless such cases can be relieved by jred innary treatment the primary operation should be only for exploration and relied of the obstruction. Colositoms should be looked upon as a temporary measure such as short circuit operation when possile is i referable to a permanent colositom wen the colositoms. Within the such colositoms with the colositoms of the colositoms with the colositoms of the colositoms of the colositoms with the colositoms of th

Brunner F: Resection of the Colon (B t ag rut Resekt on des Di klarmes) D t k Zt k f Ck to 3 1 1 06

This article is hast lon seventy resections of the tolon. Forty of the sul jets were women. In wo thard, of the cases the operation was performed for actions included contisons without injury of the abdominal wall creal fatula following appendix and the continuous

Observations of I sty two cases of caracions of the colon led to the conclusion that the lot extented the lesion the earlier sless may be expected. Caracionan of the c lon on the left sube proved to be one of the most frequent causes of sless I lieus of the caracionarious colon is expectally, tonc be cause of the decomposition of the intestinal contents. In the cases the caracionary any primarily resected

during the ileus two patients died Following Schloffer Brunner usually makes every effort to cure the ileus first. The anatomical site is re caled by median laparotomy A fresh incision is then made in the abdomen and a creo toms per formed In two further stages the carcinoma is taken out an i the fistula cl sed. If the intestine is greatly distended the excum is drawn up to the abdominal wall and incised and the entire intestine is emptied through the opening. The intes inal in er ion is they closed pro isionally and this part is utured as a carnet my into a new abdominal wound mesial to and above the right anterosuperior spine If the tumor is situated in the right colon an anasto mo is is ma le if possible between the ileum and the transverse colon and a carcal anus is formed to be resected later with the tumor. An examination is always made of the liver. When metastases are present an artificial anus is formed immediately abo e the carcinoma

Among the operati e methods Brunner prefers undsteral resection Of severity patients forty seven were subjected to a unilateral operation—twenty six to ileocolonic resection and twenty-one to colocolostomy on the left si to. The only contra injectious are ileu addictions and abscesses

The objection made by Brunner to eventration and the estable shemet of an artificial must artificial and the transposit lity of thoroughness if the procedure is carried out during ileus an I the impo subt ity of a sufficiently radical removal of the glands of the removal of the procedure is removal of the glands of the removal of the

With regard to ileocoloni resection by Kochet's method Brunner stat's that he attaches no value to the so called asepine instrumentation of Mos kowicz and Hartert Implant tion of the small intestine into the large intestine is done last in order to prevent unneces, by infection

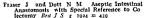
Of thirty two decorcial resections t enty air were done as one stage operations and air as two-stage operations. In disease of the left colon colocolism my as advasable e entrained in soft to be recommended. Of thirty seven colostomies twenty-one were one stage operation and fourteen three stage operations. The mortal by was 22 per cent. For operations in the tainstress colon and the distal portion of the agmost fluming regards end to-when the color of the same of the stage of the distallment of the stage o

about 8 mm wide. The anatomical course of the seesis in the intestimes entirely justifies this measure. The prepared margin is treated as though it were completely covered by pertinenum. The margins are joined by two rows of circular sutures. Thus the principle that in intestimal suturing serosa must be applied to serosa is abandoned. Brunner has found that the intestimes heal with sufficiently strong union when muscularis is applied to muscularis. There may of sutures are not desirable. The sutures abould be protected by stitching the omestium over them. When it is necessary to expose it first divided between Kocher clamps. The care of the stomach then takes in predence over that of the colon.

In the treatment of cacal fistula the opening is closed with a superficial over and-over suture. On the following day it is cut around and the skin margins are sutured together over it. Then with clean instruments and after iodine disinfection an increason is made as far as the pertoneum the fistula is separated from the adominant and the fistulous separated from the adominant wait the fistulous is closed as after theoretic resection.

Of eleven excostomies ten were followed by smooth recovery and one by abscess of the abdomin al wall. The results are shown by the following statistics.

Of seventy patients system (23 per cent) died In the last ten pears the mortality has fallen to agree rear The end results in six ases of discussal unberrulous are good in two cases there is not have a last them the cases of carcinoma which were unberrulous are good in two cases there is subsequently examined a recurrence development that them. See ne cases were operated upon less thanking the case of the cases of the cases of the cases were operated upon less thanking the cases of Eight patients (so per cent) are mained cured for more than four years after the operation.



Resection of the colon especially in the descending portion when done as a one stage operation is attended by a mortality of about 30 per cent. The chief danger is from sepsis. Factors predisposing to sepsis are (1) peculiarity of the blood supply (2)

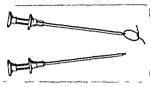
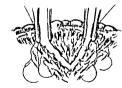


Fig. 1. Lasture pullounes. The instruments a common lig. and the tibe is baseth 1 a min the K. Pojecting from the ed. 3 the sold center were with an eje in its extrement. The fin gives which I run the hadde 1 feb in strument ar arra. calk the autition of electronic struments are the work of the condition of the

the highly septic character of the contents of the colon (3) the presence of subpersioneal deposits of fat which later may undergo necrosis (4) incomplete covering of the colon by perstoneum



I's keeset The segm t fguit be excreed has bee solated as the edge hap port n f me try it ch'd the edge has been du ded between the per try and crush g cl mps d bout t be rem ed try and the men to the pure trans st ress of closing th stumps sh wm d the post if the gature guil it es upo t im m s d cated



Fg 3 A st m Th gap th mest try has been closed The i terrupted matterss 5 tu es h be ried bt t ted (I practice a h sited as t s insert d). Not part cut by the ossed matt es t reco trolling the rea (mes ntencattachm nt a d the light in ersion of the tumps who h permits approxima

1th cumfe ence



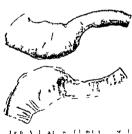
Fg. 4 An tomosis The cont put or cular sure has by inset d Begin ming at the a timesenterine bod in the distant suffort from the guillotines that has been described as the mesentery a d terminated in a loss stitch o er the port of emerge ce of the guill times.

The meth 11 s ribe lisa form of axial anastomo sis which prevents any 1 rect opening of the lumen of the bowel during the progress of the operation The procedure is briefly as fellows

The segment of bowel to be remove it is secured at each end with pres ure forceps. The attached mesentery is incised and lighted as a we led shape it



Fig. Set. 1 iow (complited analysis) and dager makes the a. 1 mg/11 appear in between the unit of it tripited it eas like out restriction. On the control of



1 1 at il delle ng ghih m ol t me Spreimen rem ed se tri i recog sall 1tl Lum ma era smoothis into the len Bd tern 1 1 pe ar c Inth c th to h t ti ly isappe et t th col Th fr h pec m but proj ts al relk d mon trated that it s ted ty nnet tile e l al e ll wing pufctly f e tre th nnal d mpl t ly b tru t gf w the proste tion d lmost ction Pos II t pe t 1) hisem lint the run l 1 1

portion. Crushing clamps are applied close to the pre sure forceps and the bowel divid d between I pursestring suture is then placed lost beneath the cru hing clamp and threaded through a ligature guill time so that the instrument comes at the antimesenteric border. A similar pursestring gature with a ligature guillotine is placed beneath the other crush: g clamp. The clamps are remo ed an I the pursestrings pulle I faut. The cut edges are approximated secured by several interrupted sutures and then anastomose lity two lavers of Lembert sutures which starting at the antimesen ter c border encircle the bowel. The two ligature guil times which have been brought out of the suture line at the same point are then t ghtened and the pursestring is cut through the cont uity of the lumen of the bowel being thus te-established

A similar technique can be u ed in end to-side

anatomous.

I aperimental study in the d g has sh wn that the cru l e l e l'es of the turnet in cul slough of within 1 ent lour hours and there is no disager of within 1 ent lour hours and there is no disager of branes. A temporary there which is precon made after about thirt days becent days after the operation the 1 neture of the murcous membrane cannot be it intelled mr is copyright and the unit of the muscularia is only after the numerator that in after different processily and the unit of the muscularia is only after the numerator that it is not a factor to structure if mation.

There is no ten lency to structure if mation.

The uthors u ed their method in two cases of tumor of the lescen ling colon with sit fictory results. In one ce et he tumor was located at the splenic flexure and in the other case in the policie of in. In both eases res cit in was carried out after rief many excessions.

VI FC BUIDES M.D.

Lussana S Om ntal Incarcerati n of the Appendix (I m t m 1 l d ll ppc d c)

A lorsus es d 0 4 6

I usan call attent n to the rap 1 d feasive action of the omentum in saling if infilimitation conditions of the bedomial organ expectally the appent. It has before a cathon was well that the appent in the selection of the selection of the truly append is merted medially and somewhat posteriorly was directed from red and covered with a contraction of the selection of the selecti

In Lussanas pi on the lancal picture sug gested that the inflammatory proce would have remained circumscribed in I woulf have a olved to spontaneous re-olut on if it had not been operated upon Anoth r poss b lity v as that the energing mentum much that estrangical the append x

W & BRE NAN

Helmholz H II The Diagnosis of Acute Appendicits in Children M n sota Med 1924 vii 187

The high mortality of acute appendicitis in child bood is due to the insidousness of the onset of the condition and the rapidity with which the appendix ruptures Appendicitis is rare in infancy and the diagnosis is seldom made until the peritoneum has

become involved.

The history is of importance in eliminating the abdominal prodromes of infectious diseases history of previous attacks is also important. The symptoms almost always present are vomiting and pain Pain which persists after comiting is of great significance. At first it may be epigastric but later it localizes in the right lower quadrant. In only one case in the series reviewed were vomiting and pain both absent Local tenderness increasing with pres sure is the most important sign. In the differentia tion from pneumonia local tenderness noted on rectal examination is of value. The temperature generally ranges from 98 6 to 102 degrees F The leucocyte count ranges from 15 000 to 20 000 A low leucocyte count with 85 per cent of polymor phonuclear cells is very suggestive of appendicitis

In the differentiation of appendicuts from pneu monia, the points to be emphasized are the his tory abdominal pain vomiting distribera respiratory symptoms abdominal tenderness the findings of rectal examination and of reentgen ray examnation of the chest, the leucocyte count, and the temperature

Davison C Davison M and Royer D J
Adhesions About the A cending Colon Simu
lating Chronic Appendicitis S g Gym c &
Obt 1024 XXX M 71

In tertain cases of a vague abdommal conditions simulating chronic appendictive peptit ulerc colitis chronic constipation or gall tract di case \(^1\) asy observation with the harun metal has treveled definite pathogonomic disfiguration of the shadow can tour of the ascending and transverse colon which produced partial or complete obstruction of the produced partial or complete obstruction of the value of the control of th

The etology 1 obscure As the condition is not evident at birth it is not congenital it is most common after middle lide. Set to not important in all cases there it chronic constipation and this intestinal stasis causes lowered resistance of the boned wall to bacterial migration and consequent log grade peritonesi inflammation Chronic applications in our livery present and gall tract discussions and all stays present and gall tract discussions in the constitution of the production of the producting and unit the sacending colon up and onto the transverse colon. By its contraction the latter is troated anterouly and brought into apposit on with the ascending colon this producing angulation and partial obstruction at the hepatic flower.

The other type seems to involve only the ascending colon. The bands are dull glatening white flurous issue too thick to be called membrane. They are very vascular and unkie Jackson as membrane can not be separated from the serous coat of the bowel. The symptoms include vague abdominal pain usual by in the right side of the abdomen and often radiating to the back distress after eating anorexia gas consenuctations chromoconstipation nausea andocasionally owning. In cases with intestinal obstruction acute abdominal cruses occur. Abdominal tendeness and rightly are usually noted above the appendix and below the gall bladder areas. The white blood count averages to coco.

The barium meal is preferred to the clysma be

ileocæcal valve

In the surgical treatment the bands are dissected and freed but because of contraction are rarely resected. The denuded areas must be peritonized. The postoperative care includes keeping the pa

tient on his left side to allow the transverse colon to drop away from its former position beside the as cending colon Magnessium sulphate is given to keep the bowel active. The resulting slight bowel distention prevents the formation of new adhesions. Patter I Murghry M. D.

Gray Sir H M W The Effects of Stagnation in the Ascending Colon Canad an M 125 J 1924 21V 93

The old anatomists taught that the normal execum and ascending colon are adherent to the posterior abdominal wall and not mobile. Mobility of these parts of the intestune is due to a fault in their descent in fetal life. The author states that mobility the resume and ascending colon is often the primary colon and the abdomination of the the abdomination is opened and an appendicectomy as performed with out the relief of 5 symptoms.

Chronic stasis affects all of the tissues of the body the functions of the organs the internal and external secretions and local and general metabolism. When the cæcum descends its attachments are drawn out into more or less well formed bands. A drag on these bands may cause local or referred pain the severity and persistence of which depends upon the severity and persistence of the drag. This condition may lead also to stagnation in the gall bladder causing symptoms that in some cases are indis tinguishable from those of gall bladder disease and may be a prominent factor in the causation of gall stones A downward drag on the band that crosses the duodenum is apt to cause partial obstruction producing gastric symptoms or even gastric ulcer The right colic vessels may be so pulled upon by a loaded and dropped excum that the superior mes enteric vessels and the neighboring sympathetic plexus are affected As a result there may be pro found reflex phenomena. Frequently there are com plaints of marked though vague abdominal discomfort. Again because of the pull communicated to the superior mesentene ves. els as they ern a the third part of the duodenum there may be constriction of that part of the bowel and what Wilkie of Edinburgh described as chronic duodenal ileus

The treatment of the condition is surgical. The best results are obtained by the Wilms operation of execocoloniconery through an ample alalominal in cision Satisfactory fixation of the colon is impos sible through a small incision I my L. Dirs M D

Cordon Watson Sir C : Some Experiences in Rec tal Surgery B # M J 1024 1 650

As the rectum is relatively insensitive pain due to intrinsic rectal pathology is infrequent. Anal pain however may be referred to the rectum and some cases of rectal pain are lue to prostatitis or sescultis On the other hand bla ! ler disturbances critability or retention, may be due to rectal disease. and occasionally science may be caused by rectal ulcers which are of themselves painless. Cancer of the rectum is painless in the early stages and remains so until it causes obstruct on or by fixation irritates somatic nerves. When pain begins the con lition has usually advanced beyond the possib I ity of cure

Many errors in divenosis are due to failure to make routine tectal examinations. Other mi takes are made when examination is dine. Excel intraction. infl mmatery strictures and hematemata may be me taken for mal gnancy while polyps and even cancers have been overlooked in cases operate I on

for hamorrhoids.

Hypertrophy of rectal papille. Morgagni s papil he is responsible for many cases of printitis ani and for obscure cases of rectal pain. These symptoms are often relieved instantly by simple cauteriz tion

of the enlarge I papille

Anal fistula is one of the most neglected liseases There is no condition which requires more skill an I experience for succe sful treatment. All granul tion tissue must be removed tough fibrous tissue dis sected out and overhanging skin cut away more than a per cent of these cases are due to fore gn bod es Ischiorectal abscesses may become ver large without producing pain and may be bilater 1 Some are due to pelvic or appendiceal abscesses Tuberculosis is responsible for only 5 per cent of anal fistulæ in phthis cal patients fistula is an un common complication. Tuberculous cases to 1 to to be intractable but selected cases may be gre tly benefted or even cured by operation. Some cas's are due to malignancy and in rare instances a chronic fistula may become the site of carcinoma In cases of cancer of the rectum colostomy is of

great benefit and by proper management can be horne without discomfort inconvenience or impair Inoperable cases may be aided ment of activity further by radium or A ray treatment and injetions of copper and seleman

Carcinoma has developed as early as the seven teenth year of age Below the thirtieth year it is always extremely mal gnant Renign t m rs m y

occur but before such a diagnosis is made mal g nancy should be rule I out by microscopic examina Multiple adenomata cause serious symptoms from hemorrhage or mal grant degeneration and sometimes give rise to multiple carcinomata. Sar come of the rectum is rare

The operation of choice differs for different cases Perincal excis on is preferred for the majority and the combined abdominoperineal method reserved for growths at the rectosigmoid functure Early

diagnosis is essential for successful treatment Diverticultis in acute cases simulates append ceal inflimmation but when chronic resembles malignancy In the diagnosis \ ray examination with a barium enema is frequently of great help The treatment consists in colostoms, short circuiting of the colon or in extensive cases auture of th omentum around the colon. In some cases a spon taneous cure may occur L M Zinnenus M D

LIVER GALLBLADDER PANCREAS AND SPLEEN

Firley & Dr Hadatid Dise so of the Liver Mod J 1 1 445 1924 1 77

From a study of the care records of 167 a fults with hydatid disease of the liver the auth r draws the following conclusions

Primary or secon lary multiple infest tions occur

in at least to per cent of cases Contrars to the u ual teaching gain i the m st frequent initial symptom in a fults, and mo t pa

tients seek advice in account of 12 n In every case of persiste t pain of the pleunt c type hydatid infestat on of the lung and hy eshoul!

be considere i Digestive disturt ances are the only other common symptoms of uncomplicated by latidicysts of the life

Tumor and h tatom gal are the mo t frequent physical findings in this dise se tons at the has of the hine may be fuel a sub-

diaphragmat c lesion hydati I diseas of the I er amorb c abscess to

Chol lithias s and h le satitis julmonary con d tions and mal mant gastri di case are the most comp on faulty diagnoses in cases of bydatid disease of the l: cr When at operation for suspected holelithiasis

or h lecystitis little a found in the biliary passages to a count for the symptoms the pos il le presence of hydatid disease of the h er should be borne in mind and the liver thoroughly explored

Complete removal of the cost is the ideal treat ment but is generally impossible. The best method usually is formalinizat on and clo ure of the cyst This should be done in all cases unless it is d fin tely contra indicated

The immediate prognosis in cas s of uncomplicated hydatid d s a c of the li er is good but in cases of complicated cysts it is doubtful. The ultimate prog n sis sh uld be gu rde l in all cases

CYRIL J CLAS EL, M D

Morley J A Postgraduate Lecture on Acute Ob structive Cholecystitis B t M J 19 4

Acute obstructive cholecystitis results from the impaction of a stone in the neck of the gall bladder or cystic duct and presents a clinical picture differ ent from that of other manifestations of gall stones Its pathogenesis bears a striking similarity to the pathogenesis of acute (obstructive) appendicitis but there is less tendency to gangrene and perforation because of the smaller number of bacteria the better blood supply and the toughness of the gall bladder wall

Obstructive cholecystit's occurred in thirty eight of 100 consecutive cases operated upon for gall stones In four of these perforations had taken

place There were four deaths

An attack of obstructive cholecystitis begins as an ord nary bihary colic but instead of passing off in from two to eight hours it pers its and the pain becomes sharp and stabbin localized to the right hypochondrium and increased by deep breathing and coughing Muscular rigidity develops and ten derness on palpation becomes exquisite Shoulder tip pain is relatively uncommon. Vomiting almost always occurs and may be repeated The bowels are usually constipated. The temperature is elevated in proportion to the severity of the inflamma tion and the pulse is accelerated Jaundice is usually ab ent. The distended gall bladder may be palpated

In the diagnosis this condition must be differ entiated from acute appendicitis acute hemorrhagic pancreatitis and acute infections of the right kidney An acute attack is very apt to subside but marked rapid distention of the gall bladder with a tem perature over rot degrees F indit ates danger of gangrene and perforation. The latter rarely occurs

before the fourth or fifth day

The time for operat on depend on the seventy of the symptoms and the general condition Chole cystectomy is the operation of choice but great care is necessary to avoid damage to the hepatic or common duct or the cystic artery If dense adhesions are present about the gall bladder neck simple drainage may be the best procedure. In rare cases a large stone may ulcerate through into the duodenum and cause acute intestinal obstruction

L M ZODERNAN M D

Carm n R D MacCa ty W G nd Camp J D
Roentgenol gical Dagnosi of Ch l cy tic D sease Rd | gy Q 4

In an effort to determine the s gn fi ance of the direct roentgenological sig s of di e se of the gall bladder by comparison with the surgical and patho logical findings the authors studied 500 cases which were referred during a per od of one year to the Section on Roentgenology of the Mayo Clinic for examinat on of the biliary tract

Because of the h gh incidence of disease of the gall bladder negati e roentgenolog cal findings in the stomach duodenum and unnary tr ct in cases

of discomfort in the upper part of the abdomen are very suggestive of disease of the gall bladder This circumstance no doubt tempts the roentgenologist to make a diagnosi of disease of the gall bladder even when he evidence may be otherwise highly in conclusive As diagnoses based on such possibilities are unscientific only roentgenological evidence which can be substantiated by pathological changes should be considered

In the opinion of the authors the shadow of the gall bladder is not produced merely by thickening of the wall of the organ In certain instances in which there was a shadow believed to be that of the gall bladder operation disclosed that the gall bladder was thin walled and contained thin bile. In other instances no shadow was visible though the gall bladder was thickened and contained thick bile These facts indicate that thickening of the wall is not the only factor responsible for the resulting shadow and suggest that the bile must play a considerable part in its production. As experiments have demon strated that it is impossible to distinguish between the X ray densities of normal and abnormal bile the authors believe that there is no apparent reason why the normal gall bladder should not cast a shadow as often as the diseased organ Other factors influencing the production of the shadow are the relative size of the gall bladder and the amount of its fluid contents

Of the surgical cases with a positive roentgeno logical report the roentgenologist made a correct diagnosis of disease of the gall bladder in 97 per cent Of those in which the gall bladder was reported as negative by the roentgenologist it was considered normal by the surgeon and was removed in only 17 4 per cent Of the gall bladders considered roentgenolo gically as abnormal 82 6 per cent were removed and the operative diagnosis was confirmed by the pathol ogist Of all the surgical cases in which a lesion of the gall bladder was found at operation the roentgenologic diagnosis was correct in 45 1 per cent Of the cases in which stones were found at operation a roentgenological diagnosis of gall stones had been possible in 38 4 per cent

A pathological study of 343 gall bladders was made with regard to the seventy of the disease the length and diameter of the organ the thickness of the wall and the presence of stones and of the pathological entity known as strawberry gall bladder results being compared with the roentgenological report An analysis of the series showed that the roentgenologist had made a positive report of disease in 52 9 per cent and a negative diagnosis in 44 6 per cent when there was evidence of mild or extreme grades of disease of the gall bladder

Fewer than half the cases of diseased gall bladders were revealed by the roentgen ray From the find ings in the series studied the authors draw the conclusion that an affirmative roentgenological diagnosis is highly reliable although it can be made only in a minority of the cases and that a nega

tive report is worthless

Druty D R McMaster P D and Rous P Observations in Some Causes of G II Stone Form atton III The Relation of the Reaction of the Bile to Experimental Cholelithia is J L p Med 19 4 xxx 403

There is a definite tendency for calcium carbonate to come out of solution in the normal liver bile of the dog and to be deposited on certain nuclei not infrequent in the secretion under pathological circumstances. Gall stones formed in this manner were frequently found in the intubated aumals studied.

by the authors

The solubility of calcium carbonate is known to be markedly affected by the reaction of the fluid in which it is contained. The normal liver bile out of which it tends to precipitate is alkaline with an average pH of 8 20 but in the gall bildefer where conditions might otherwas seem especially favorable to precipitation the secretion undergoes a change to ard the acid sed becoming nolog sojourn there strongly send to litimus (pH 5; 8 to 6 co). From bile thus altered no carbonate precipitation takes place even when it becomes greatly concentrated as in fast measurable or affect obstruction of the common dutr.

Reasons for the absence of carbonate stones from the normal ducts under ordinary cond tions are the motil ty of the ducts the flushing they undergo from an I termittently quickened bile stream and the cleansing and possibly antagonistic action of the secretion laborated by the duct mucosa I not fasting animal the rate of bile flow is greatly cut

down while the calcium concentration of the secre

tion undergoes a considerable increase

There is also a change in the bile reaction a
diminution in alkalinity so great that the pH often
approximates that of the neutral point for litmus

These adjustments within the organism strongly suggest that the bile reaction plays an important part in determining the occurrence of carbonate stones and that their absence from the normal gall bladder is due to the changes in the bile reaction occurring there. The changes come about through

the functional activity of the bladder.

In man carbonate spheroliths often serve as centers for the formation of secondary stones of carbonate and cholesterol. Technical from human gall bladder bile can be induced or prevented by slightly altering the reaction of the flu d toward the alkaline and acid sides respectively.

SAMUEL LAIN M D

Désplas and Ebrard Hæmorrhagic Pancreatitis Due to St ne and Without Fat Necr 1 Emer gency Operation; R covery Secondary Chole cy tectomy (Pan & te hemorrasque dor gin lith squ s s yto lét nécos interv to durg n e guéraso holécystectomic séconda) B ll tembs Sc + ld ch de P 19 4 1 27

The pre-operative diagnosis in this case was homorth gic pancreatitis occurring in the course of cholel thiasis but at first the symptoms suggested perforated ulcer The diagnos s was verified at op

eration On palpation the gall bladder was found full of calcult There was no fat necrosis Operation consisted in opening and draining the ordernatous and hæmorth gic areas in the pancreas The gall bladder was removed at a second operation The patient recovered

In 110 cases of hemorrhagic pancreatitis reported in the literature some coposities authors found must three with fat necross and sixteen without it Only tenty three of the former and elever of the liter were operated upon during the first itemity four or hours' in the musty three cases with fat necross without it there were eleven deaths. As a statem cases without it there were eleven deaths. As more of six necross denotes greater gravity of the case of six necross denotes greater gravity of the case.

The authors regard hamorrhagic pancreatitis as a complication of biliary lithiasis in grave cases it is necessary quickly to open the pancreatic cap sule and drain. The condition of the biliary organs should be venified but the treatment of lessons in the

biliary tract need not be immediate

Hemorrhagic pancreatitis occurs less often with out fat necrosis than with it The mortality of the former type is 75 per cent and that of the latter 61 per cent WA Bren an

MISCELLANEOUS

Finsterer II Methods of Inducing Local Anaes thesia in Abdominal Su gery and Their Results (De M thoden der Lokalana thesi dr Bauch h rgse u d ih Erf ig) Berli Urb & Schw enb g 1923

This work is more comprehensive than is indicated by its title. The various gastric operations are compared and conditions such as peritoritis, ileus, and

vicious circle are discussed

A chapter is devoted to the effect of local ansithesia upon the prognosis in cases of abloamial operation. Local ansisthesia is indicated when general ansisthesis is contra indicated for xample to prevent a further fall in the blood pressure in emegrency operations for ileus and pentionitis. Amesthet ization of the abdominal wall and the administration of very light whiffs of a general ansisthetic appear to make deep narcosis unnecessary. This procidure is not followed by operative shock. The authorize rd deaths from so called operative shock is late de this due to ansisthesis.

In 2 400 laparotomics including 603 resections of the stomach and 603 resections of the intestine there were no deaths from operative shock. Acute dila tation of the stomach is also a rare sequela of local anasthesia the auth r has observed only three

cases of any considerable severity

The question of pulmonary complications is discussed in detail. The belief that local marshesis has no effect upon the danger of lung complications was based upon a comp ins no fund ke figures and sis therefore incorrect. In Ado resection 5 for gastine or disudenal elect in the author's series there were no deaths from pneumonia. For local answhens the author uses Brauns anyocane adrenaln usually m. Jer cents solution Experiments are now being made to determine whether the duration of the answhens may be in creased by the addition of V per cent quinne sulphate. This would be of a value particularly for pattern to make better efforts to clear the air passages.

In discussing the sensibility of the abdomen the author calls attention to the sharp demarcation which is sometimes noted. Following a description of abdominal wall anaesthesia be discusses the conduction anaesthesia of the mesenter, which he first reported in 1912 and a hich can be easily induced in organs with a movable mesenter, by injecting from 70 to 40 c cm of a 5 per cent solution of the anaesthetic. Paravertebral anaesthesia is very difficult and not without danger. It is to be considered only for unlateral resection of the large intestines informed the current Am antifructive illustration ablows a first the current Am antifructive illustration dhows a first the current Am antifructive illustration and over the lumber see.

Finister discusses also in detail the splanchnic anasthesia of kappis which vas induced in se enty two cases and that of Braun whi h was employed in 328 cases. He prefers the latter as it has never caused him any ana ety. However he used only from to to 20 c m of a 85 per cent solution of the

anguithetic Braun's parasacral angusthesia was found satisfactory for high carcinoma of the rectum It was induced with bilateral injections of from to $t_0 \le t_0

In other chapters of the work the author describes the special technique for inducing local anasthesia for slight moderately severe and major operations The chapter on anasthesia in cases of eastric ulcer contains a description of the entire clinical nicture of this disease in relation to the operative treatment. The chapter on operations upon the liver and biliary passages deals with cholecystectomy choledochotomy operations for carcinoma of the gall bladder cholecy sto-entero anastomosis and operations for in juries and cirrhosis of the liver. The text is supple mented by tables and case histories. Operations upon the female genital organs and the Lidneys which are performed under paravertebral angesthe sia are discussed briefly to mention a made of operations upon the bladder or prostate. There are forty two illustrations twelve showing methods for local anasthesia LUELENBAUTER (Z)

GYNECOLOGY

UTERUS

Moench L M The Relationship of Chronic Endocervicitis to Focal Infection with Special Reference to Chronic Arthritis J L b & Clin Med 1924 1x 289

The author discusses the possibility of a definite relationship between chronic infection of the uterine cervix and morbidity in general and reaches the following conclusions

r The anatomical and pathological facts re viewed point to the structural predisposition of the uterine cervix to act as chronic foci

2 Bacteriological and animal experiments indicate the special rôle played by the streptococcus with regard to pathogenicity and the relative un importance of the more saprophytic flora 3 Evidence is presented to show the affinity of

cervical streptococci for joint tissues
4. A marked percentage increase in joint localization in a series of selected cases of arthritis was in agreement with Rosenow's elective localization.

theory of focal infection
S. Clinical and experimental evidence offers

further support of such a relationship

6 The antigenic properties of the cervical streptococci suggest low virulence but high specificity of

these strains

7 Evidence is offered to suggest a parallelism between the virulence of the cervical streptococci and their biological conditions of growth

8 Experiments in rif suggest bactericial as well as bacteriostatic effects of anilin dyes on cervical organisms A modification of Kennedy's interstitual injection method is based on the se lective bacteriostatic principle for the elimination of the cervical focus

Wintz H The Re uits of Roentgen Ray Therapy of Cancer at the Erlangen Gynecological Clinic (Di Erlahur g n mit d Ro tg nth pe d Krebses der Elngr Fr kh k) S/ h l nih op 10 3 x 7

In roentgen ray and radium treatment we are dealing fundamentally with the same remedy the chief difference is in the technique of application

Radium must be applied in close proximity to the area to be tradiated as only limited quantities of it are available and with one applicati n it is possible to reach a depth of only 3 cm. On this account the author has been employing the roenigen ray almost exclusively for several years though there are certain cases in which its combination with radium is of value.

The method of Wintz is based upon the principle of exposing the entire carcinomato s area to from

soo to 110 per cent of the skin crythem does. Thus does is not to be regarded as the minimal does nor as the cu attve does but only as a destructive does. If destruction is not accomplished the fault less in the difficulty, of calculating the dosage and the leading of the method of measurement. Since the dose may be altered by numerous factors it as not justifiable without further uncettigation to place the blame for an unfavorable result on the bootened reaction of the currence.

From his statistics the author finds that in about on per cent of the cases of operable portion and cer neal carenoma the result is entirely negative be cause of mability of the body to remove the decause of mability of the body to remove the debug of the cases of the cases of the cases of the cases of the cases of the cases of patients who are well cared for as in those of patients who are well cared for as in those of patients who are well cared for as in those of patients who are unable to obtain adequate

those of patients who are unable to obtain adequate rest and care

The author's method of irrad ating portio and cervical carcinoma consists in subjecting the pri many tumor to from 200 to 100 per cent of the skin

mary tumor to from 200 to 110 per cent of the skin erythema do c through five or six fields by 8 cm in size and after an interval of seven weeks irradaining the adness through flow or of the fields on each side. Ir adiation in a single sitting is not 4d visable. Since topic most of the irradations have causes more rapid recession of the tumor and quicker sear formation.

The after treatment must include the care of in tu ies caused by the irradiation (unavoidable dam age to the bladder and rectum which usually heals readily) and strengthening of the body by the ad ministration of iron and arsenic and other measures According to the statistics collected by Winter 14 per cent of the patients subjected to irrad ation were alive after six and one half years 18 per cent after five and one half years and 18 per cent after four and one half years The favorable effect of the gradual imp ovement in the technique is evident in the increase in the number of chincal cures Of patients treated in 1016 24 per cent were alive after two and one half years while of patients treated in 1010 34 per cent were all e after the same length REWP (G) of time

Winter F Postoperati Prophyl ctlc Irradia tions in Cases of Ca inoma of the Uterus (B 17ag xur Frag der post perati en p phylak tischen Bestrabl g b m Uterusc 1 m) M enchen med W ch de 923 lx 7

Winter reports the results obtained by postopera tive prophylactic irrad ations in cases of carcinoma at the Second Gynecologic I Clinic in Munich The cases were treated in the period from January 1

1017 to September 30 1920

Of the fifty nine patients with cervical carcinoma only three were operated upon by the Wertheim technique all of the others being subjected to total vaginal extirpation Thirty six were irradiated post operatively and twenty three were not urad ated At the time of this report of per cent of those ir radiated and only 30 per cent of those not irradiated were still alive In four fifths of the cases only from two to four years have elapsed since the treatment

Most of the twenty three cases of carcinoma of the body of the uterus showed no recurrences even when irradiation was not given (eight of ten cases) Of the patients not irradiated two died but the death of one was due to a condition other than

carcinoma

In the cases of carcinoma of the ovary consider able improvement in the results was obtained by postoperative irradiation. Of the four patients ir radiated three are known to have remained cured and one cannot be traced. In the tv o cases in which irradiation was not given recurrences developed

The poor results in the treatment of carcinoma of the vulva were not improved by postoperative

irradiation The author believes that the best prophylactic treatment after operation is a single irradiation of the entire area threatened MARTIUS (G)

ADNEXAL AND PERIUTERINE CONDITIONS

Matthews II B The Effects of Radium Rays upon the Ovary S g G & Ob ! 19 4 xxxvIII 383

From a detailed study of the effect of radium rays upon the ovary the author draws the following con clusions

- In certain lower vertebrates notably the rabbit the ovarian tissue can withst nd without loss of fecundity larger doses of radium rays than the ovaries of the human female. This may be accounted for by the so called selective action of the rays or by the fact that in the animal the ovary lies nearer the source of the rays than it does in the human female when radium is applied through the cervical canal
- 2 The main historiathological changes in human ovaries brought about by exposure to radium rays in sufficient dosage to produce amenorrhoa for vary ing periods of time e.g. from 800 to 1 200 mgm hrs or longer include round-cell infiltration engarge ment of the blood vessels extensive fibrosis in and about the blood vessels and throughout the entire organ and more or less disintegration of the followlar apparatus These changes are increased in extent proportionately with an increase in the dose administered there being finally complete destruction of all the follicles (ripe and unripe) and extreme fibrosis throughout the entire organ which in many

of the blood vessels amounts to an obliterative endartentis

From the data at hand it seems reasonable to conclude that after the usual dose of radium used to control non malignant uterine bleeding pregnancy may occur and delivery may be accomplished norm ally If more than from 600 to 800 mgm hrs is used fertility will probably be destroyed

4 The tendency to abortion is slightly increased following the use of radium

5 The offspring of radiated women show no un toward effects and usually develop normally 6 Age is a very important factor as regards the

effects of radium rays. The ovaries of active healthy young animals can withstand relatively much larger non sterilizing doses of radium rays than the ovaries of older less active animals

HARRY W FINK M D

Lack V J A Case of Cyst Development in an Ovarian Graft Proc Roy Soc Med Lond 924 zvu Sect Obst & Gynge 33

Cystic changes in ovarian grafts appear to be rare While several surgeons have mentioned the risk of cystic degeneration as a possible objection to ovarian grafts Lack has been able to find only two cases reported in the literature one recorded by Graves of Boston in which three subsequent operations were necessary for the removal of cysts and one recorded by Blast Bell

A case seen at the London Hospital was that of an unmarried girl of 20 years who was admitted to the medical wards on October 14 1022 suffering from ascites. A tentative diagnosis of tuberculous peri tonitis was made. After paracentesis an abdominal tumor was discovered

At operation a large amount of free fluid vas evacuated and an ovarian tumor about the size of an adult head was revealed on the right side. No secondary nodules were seen on the peritoneum or in the omentum A portion of apparently healthy ovarian tissue about the size of a bean was discov ered in a cyst on the left side. In the closure of the abdominal wound the greater part of this tissue was fixed by one stitch to the fascia behind the right rectus muscle and a much smaller piece was dropped into the wound behind the left rectus muscle. The wound healed by first intention and convalescence was uneventful

On May 17 1923 the patient stated that she had remained well but had not menstruated since the operation In July there was slight bleeding for two days and twenty-eight days later a normal men strual period lasting four or five days Fourteen days later bleeding began again and continued for seven days The amount of blood lost was slightly ex cessive Subsequently there were two further period of bleeding On October 21 the patient was re admitted to the ho pital complaining of menorrhagia for five weeks and slight abdominal discomfort

Examination revealed a small rather firm cystic swelling in the abdominal wall about 4 cm long by 2, cm wide This was situated 3 cm from the operation scar in the midline and about equidistant from the symphysis pubis and the umbilicus. It was fixed to the muscle and not tender.

was need to the muscle and not tender

A small incision made over the swelling showed
that it consisted of two small cysts one about twice
the size of the other. The larger was filled with
a brownish clear serous fluid, and the smaller with

a pale vellow clear fluid. The mass was excised. The wound healed by first intention. The graft contained two ova in primitive follicles and two follicular cysts. In one of the follicular cysts there were changes suggesting a modified.

lutein reaction EDWARD L CORNELL M D

Estes W L Ovarian Implantation the Preser

Estes W L Ovarian Implantatin the Preser vation of Ovarian Function Aft r Operation for D sea es of the Pelvic Viscera S g Gyn c & Ob i 1924 xxxvu 394

In an attempt to find a method whereby bilateral salpingectomy might be done without preventing subsequent pregn ncy the following operation was evolved by the author's father and used by him in roo cases:

The patient is placed in the Trendelenburg position and the upper abdomen packed off. Petvic a liesion and the tubes and ovaries are carefully and gently freed. The ovaries are carefully inspected and the one most normal in appearance is chosen for

implantation. The tube and overv of the side on posite the implantation are removed first. The broad ligament and the uterine aftery where it emerges at the horn of the uterus are ued off. The tube of the implanted side is then removed together With enough of the horn of the uterus at the tubal attachment to leave a raw area the size of the cut surface of the ovary A longitudinal si ce is taken through the full diameter of the ovary about one quarter of it being removed from the surface opposite its ligament and mesentery and the cut surface of the ovary is turned over onto the denuded area of the uterine born and sutured in place with a continuous catgut suture The round ligament is then pheated over this to peritonize it. On the opposite side the stump of the broad ligament is sutured to the horn of the uterus and covered with the round ligament

Contra indications to this type of operation are an edemato is uterus pyosalpinx or pelvic abscess and the cases of women with a low mental ty contra indicating pregnancy

Of twenty seven w men traced after this operation four (15 per cent) became pregnant mueteen (70 per cent) had regular menstruation and four had irregular bleeding. Three of the twenty seven were operated upon a second time for cystic en largement of the implanted ovary.

HARRY W FINE M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Rowland V C The Pernicious or Hæmolytic Anæmia of Pregnancy J Am M Ass 1924 irxn 372

The hamolytic or permicious anamia of pregnancy is a spec al form of severe anamia which resembles permicious anamia but when once overcome does not tend to recur. The condition should be more widely known especially among obstetricians in order that an early diagnosis may be made and neventive treatment carried out.

The anzmia comes on insidiously and may be come apparent only during the later monits of pregnancy or during the purperium. It may be associated with the simptoms usually, see in touc cases of pregnancy. Labor is apt to come on prematurely and is characteristically short relatively panies and associated with minimal bleeding. In neglected cases stillburths are frequent and after partuntion there may be sudden collapse and death of the mother.

The treatment includes blood transfu ion and the intravenous admini tration of sodium creedy late to tide the patient over the crisis

HARRY W FINE MD

The author comes to the following conclusions

T Nothing is gained by operating while the patient is in shock
2. If the patient does not die at the time of her

- or trief time of her initial collapse she will espond to a certain degree to treatment

 All women in shock should be given a trial to
- 3 All women in shock should be given a trial to demonstrate what they can do by way of recovery This is well shown by systolic pressure readings.

 4 In all cases of ectopic pregnancy in which
- rupture has not occurred surgery is the rule
 5. When the pressure continues to fall in spite of
- treatment surgery is imperative
 6 When the pressure reacts to 115 mm at the
- maximum operation is indicated
 7 When the pressure is permitted to run to nor
 mal I mits the seal ng clot may be disturbed and re
- newed hamorrhage and shock may occur

 8 In the moribund type of case with an initial
 pressure of 50 mm or lower the rise under treatment
 is never back to normal limits
- 9 A pressure that rises and then remains station ary calls for surgery. The time we wait while the I ressure remains stationary depends upon the type of case and the experience of the operator.
- 10 A pressure that rises and then beg s to fall ealls for immediate surgery

- 11 The action of the systolic pressure is a good index of the patient's condition
- 12 Records to date are for the most part un reliable as the clinical data recorded are inadequate EDWARD L. CORNELL M.D.
- Katz II Untreated Ectopic Pregnancies with Fatal Outcome (Beob chiung an unbeha det gebi benen ktop schen Sch vangers haften mit toedlichen Ausgang) Z niratbi f Gynack 1023 ziu 1507.

In the records of the Institute of Medical Juris prudence in Venna for the period from 1800 to 1922 hatz found thirty one cases of more or less sudden and unexplained death in which autopay revealed interrupted ectopic pregnancy with internal hæmor

All of the cases were tubal pregnances twenty two in the sthime portion her in the ampular portion and four in the interstitial portion. All of the twent two sthime; pregnances termined within the first or second month by rupture. Of the five ampullar pregnances there ended in rupture to the third or fourth months and two in tubal about too II in the interstitial pregnances the trupture occurred once in the fourth and once in the fifth month.

In only five of the cases was pregnancy suspected. No medical and was sought in sixteen crises and in only three of the remainder va subal rupture consisterd. In sixteen cases the symptoms were noted only from six to twenty four hours. The amount of harmorrhage varied and showed no relationship to the duration of the illness. The greatest loss of blood recorded was 3 350 c cm in mine hours. In kneett, seen crases the decreada was still present

The author reports these statistics to show that every recognized case of ectopic pregnancy should be subjected to operation

If yo (G)

Mills L. The Signif cance of Ocular Changes Occurring in Association with Pre Eclamptic Symptoms Am J Ob 1 & Gy c 1924 v 3 4

In more than 00 per cent of cases of pregnancy the eyes are involved as a result of the flyssological enlargement of the pituitary gland which causes contraction of the visual fields by pressure upon the optic commissure and tracts. In the more marked cases more or less retinal venous stasia arises probably from the same origin.

In occasional cases a temporary but decided loss of central as well as of temporal vision at times amounting to practical blundness has also been noted. Heretofore this has been attributed to toximize of pregnancy but no gross renal blood or obstetrical pathology is found. Probably such

cases represent an acute obstructive retinal status and eedems or the direct effect of relatively exces sive pressure upon the optic nerve s stem or a combination of these factors.

The symptoms of headache nausea comiting and epigastric and colonic distress in these cases thinkerto assume! I to be pre eclamptic often occur without renal or hepatic disturbance. It seems probable that they are due to the local intracranial pressure of the hypertrophical picultary as well as to the greatly increased puttiary further.

Ability to separate symptoms interior considerate preceded by the separate symptoms interior considerate preperceded by the separate symptoms and thou are suggested to separate symptoms ground ground of pregnance as an agent separate symptom and though a separate symptoms and separate symptoms and separate symptoms and suffer interior systems the examinations of the value fields and eye grounds of all pregnant women a ho-suffer interior pregnancy from headache nucleas and committee ab lominal distress and renal eye hepsite disturbance.

Ennance 1 Convex. M.D.

Thathim r W Insulin Treatment of the Tox semic bomiting of I regnancy J ba M A r 024 is 21 500

To date the author has had the of portunity to use insulin in only three cases of severe to termic vomit ing of a require to the results have been so stifts ing and paralleled so exactly those of tained in all cases of postoperative act loss a similarly treated that they seem sufficiently important to report

In one case of marked keto us an Itotzemic vomiting of pregnancy lucir in olvement was in licated by the presence of large am units of bile in the unner. This pritent was a further test of the lisus in treatment is at was d covered later that she tried not to cease comiting as she desired to have the uterus mpticed. She left the hospital feeding well an ir coon

ciled to her pregnancy, and has remained well since In Case r he ourse of the actions was foll wed with Van Slyke's method of determining the sikal testence. Before treatment this was 375 corresponding to 3+6 octone and d actic cacil in the unasterned to a moderately severe a 10-80 x The morning after one treatment with insulin and glucine the alkalite treatment a small or moderate amount of action appeared in different specimens of the turne and the patient somitted once. This kerous conditions to action the contraction of the contraction

In Case 3 a condicourse of treatment 1 as neces sary twenty four hours after the first. Ten units of U to iletin 1 as used to the first treatment as U to uletin was not a aliable. If to an 1 U to iletin have not seemed as elicient as II ao or U to When U to was used in the second treatment the actions etc. cleared up promptly in the usual manner.

For the time being treatment with insulin should be reserved for the mot severe type of toxamic

comiting of pregnancy Miller cases clear up when the patient is given rest in bed sedatives and glucose solution by rectum

In the ketosis of pernicious vomiting of pregnancy insulin seems to act in the same way as in post operative non diabetic acidosis

EDWIED L. CORVELL MID

Baugi man G The Treatment of Eclampsia and hephritis Complicating Pregnancy South M J tota 2 205

A large percentage of pre-eclamotic women can be saved from come and convulsions by careful management With the first signs of head che mala se ordema blurring of vision a rising blood pressure and the presence of albumin or casts in the urine Baughman treats the p tient for tox amia. The diet is restricted to milk and bread and cream of tartar lemona le (1 dr of cream of tartar to the pint) and digitalis are prescribe! If the condition does not pr mptly improve the patient is put to bed preferably in a hospital analysis of the blood is made and at the time the blood is withdrawn for analysis 200 c cm of 20 ber cent glucose solution are run into the vein Il con siderable cedema is noted the patient is sweated by hot pa ks or the electric pad Il there is still n) improvement labor is induced delivery being guarde i with a sufficient quantity of morphine to make the patient comfortable

Unless a pre-eclamptic woman has con ulsions or becomes complose her chance for life is about as good as that of the normal pregnant woman but as soon as she has convulsions or becomes comatose it decreases t one in five In cases of con ulsions the author at es t gr of morphine at the outset of the condition and continues this drug in decreas ine doses until the respitations are ten. The stomach is washed and a swift purgative such as Epsom salts is left in it Digital s is given until the patient is digitalized During the convuls on a mouth gag is placed between the teeth. The colon is irrigated every eight hours first with so psu is and then with a 20 per cent glucose solution Venesection followe i by the injection of glucose solution has been found of value If the condition becomes grave delivery by the quickest method and with the H xxy W Fre M D least shock is indicated

Richt P An Anat mical and Clinical Study of the M reinated Placenta (Ft d an t mo-cl iq dupl tam gné) Gynl 1001 1924 i 8

In a very long article Richl reports the findings of detailed anatomical and clinical study of 116 cases of marg nated placenta. The article is profusely illustrated. The different theories regarding the for mation and types of margin ted placenta are discussed and analy 126.

The following conclusions are drawn

There are many types of marginated placents

The dominant factor is the bibrous ring con
stituted by (1) fibrin such as dense fibrin canalized

slightly dilated cervix the hamorrhage ceased and reticulated fibrin (2) villosities more or less necrosed and (3) decidual cells in a more or less

pronounced state of necrosis with hamorrhage The last is not found in the first group of the classifi cation here given

3 In the first group of marginated placentæ the formation of the fibrous ring is the result of blood stagnation in the intervillous spaces at the placental periphery

4 In the second group the fibrous ring is formed by the end of the sixth or seventh month and causes unequal development of the two placental surfaces As a result there is variance of the two placental surfaces with the formation of the extra chorial margin

In the third group the placenta is partially inserted (rarely entirely) in one of the uterine cornua Its tubal insertion is followed by pulling and then by separation of the superficial villosities at the side of the lobe which covers the tubal orifice The entire process is accompanied by hamorrhage All fibrinous deposits and all necroses of the de tached superficial villosities end in the alteration which constitutes the fibrous ring besides forming the extrachorial margin

6 A small number of marginated placentæ are due to the persistence of a small tag of reflected marginal decidus, which is thick and resistant and prevents the normal placing of the latter to the true decidua

7 Marginated placenta is most frequently found in prim paræ and secondinaræ

8 Marginated placenta may be the cause of hamorrhages during gestation These hamorrhages accompanied at times by cramps in the lower ab domen may lead to separation of the placenta. In the majority of instances the separation will be only partial but in rare instances it may be total and followed by premature delivery. Accordingly there is a relation of cause and effect between marginated placenta and premature separation of a normally inserted placenta

o Marginated placenta has no influence on the normal development of the fetus

SALVATORE DI PALMA M D

Cle sz Two Cases of Placenta Przevia with Hamo tasis Aft Total Detachment of the Placenta Occurring Spontane usly in One C se and Ef fected Manu lly in the Other (Deux c pla ent p evia ec hém st par décoll ment t tal du pla e ta dans n a po t ém nt dans l'a t m uellem nt) B ll S d bit tde ey f Q 3 XIII 533

In the case in which hamostasis occurred spon taneously a completely separated placenta was found in the vagina and delivery of the fetus was effected without further accident

The other case was that of a woman who was first seen after five days of bleeding and in a most entical state. A cent al placenta prævia was found Following s paration of the placenta through the

bag was then introduced and the fetus delivered Convalescence was uneventful except for the re action to an injection of antistreptococcus serum ATREST F DEGROAT M D

53

Gaenssie H The Treatment of Placenta Praevia (Heber Reb ndlu g d r Placenta pr Gynaek 10 3 C 120

Gaenssle reports 186 cases of placenta prævia from the Tuebingen clinic Under the direction of Sellheim and Mayer delivery was effected by the vaginal route in one half and by incision of the uterus in the others. Of the women treated vaginally fifty three were delivered by combined version five died two from hamorrhage and three from sensis There were forty two stillbirths twenty four of the infants were viable. Dilatation of the cervix in fifteen cases resulted in the death of one mother from sepsis and of eight infants five of whom were viable. Internal version was done eleven times. two mothers died from hamorrhage and two infants one of whom was viable were born dead. In eleven cases in which the amniotic sac was ruptured there were no maternal deaths but to omfants were born dead one of the infants was viable. In two cases of per foration there were no maternal deaths. In one case of vaginal section the mother and child both survived The death of one mother was nnex plained One mother died from embolism four from hæmorrhage and two from infection

Except in one case of hamorrhage from laceration the defective hamostatic power of the lower segment of the uterus was responsible for the fatal hæmor rhage In thirty cases the placenta came away spontaneously in forty four it was delivered by pressure In ten cases of the first group and twenty five of the second tamponade was done. In nine teen cases manual removal of the placenta was neces sary The fact that the great majority of the women were multiparæ may have accounted for the frequent necessity for tamponade Fever occurred in only ten of the fifty four cases treated by post partum tamponade

Because of the technical difficulties of dilatation of the cervix and combined version the practitioner should send all cases of placenta præ na to the hos pital if possible

D ffering from Hitschmann the Tuebingen clinic ascribes great importance to atony of the lower segment of the uterus. The reduced extensibility of this segment which increases the danger of laceration warrants following the example of Kroenig and Sellheim and performing casarean section under certain conditions When the placenta is adherent the cervico abdominal incision usually makes hæmo stasis possible but in some cases a fatal hæmor rhage cannot be prevented A disadvantage of cresarean section is that it is contra indicated when infection is present

In thirty-eight cases in which Sellheim's extra peritoneal method was used there were three mater nal and two infant deaths. In fifty three cases in which the intraceritoneal method was employed there ere three maternal and three infant deaths Gaenssle draws the following conclusions with

regard to treatment

When there is po its e infection uterine s clion should not be can i lered but when infection not manifeste I in cases in which external examination or tamponade has been done it is indicated. This statement hold for all cases in which the child is viable with the sole exception of the exith slight bemorrhage good pains and a child in the longs tudinal position hen rupture of the ac may be done In infected cases and those in which the child a not viable the vaginal route is to be considered unless the patient is a p imipara with a closed cervi al canal an I severe hamorrhage. Wh a the child is dead ille choice of treitment depends upon the eventy of the hamorrh ge Stick L (G)

Dietrich The Findings fr m Collected St tistics on the Treatm nt of Febrile Ab rtion (D 1 Smmltat tkub d Bhpdlus les fite h ft n At rte) fr h f (v at o 1 CK 54 24

The author r 1 ws the collected taustic from twenty clinics on 10 000 abortions. In the cases of pat ents admitted to the hospital 1th a tempera ture of 18 degrees C the mortality as 4 5 per cent in those given activet eatment 1 aper cent n those given expectant treatment followed by active treat ment after fever h d been b ent for from three to eight days and 4 per cent in tho e gi en ent rely conservativ t eatment

In a group of clinics g ing conservati e and activ treatment the mortal ty was a 8 per cent and in a group giving expecta t indico servative treatment

it was 3 per cent

Anoth r nt e ting find ng as the d ff r nce be tween pu ely d'git i act ve tr'atm nt d'gital tr'at ment with the u of the curett and cu ettage alone When the curette was used alone the mor tality as taper nt hen ligital tr atment vas combined ith cu ting it was 44 p c nt a d when purely digital evacu ton of the uterus was

done it was 5 9 per cent

When the c ryical can I as lo ed ti e treat ment was associat d with mortality of 53 per cent and when the cerv x v as patent the mortality was 2 8 per cent Ther fore acts e treatm at should be a oided espe ally hen the ce ical canal i D ETRICH (G) clo ed

Hillis D S F perience with 1 000 Cases of Ab r tion 5 4 6 6 - Ob 1 19 4

On admiss on to the hospital the cases reviewed were alternate ly as gred to one of two general g oups a group to be go en active treatment and a group for conser ats e t catment

Pat ents with threatened abort on were tre led with rest sedatives a d the application of ice bags

to the lower abdomen

In cases of mevitable aborts a vith a normal temp rature which ere assigned to the group even active treatment curett re was lone on the fifth day after admi sion if there y as any reason for so doing and if the tempe ature remained normal. The reason for the five lay interval was that all the patients were considered potentially septic since there was no say of knowing whether o not they had had fever prevous to their admis on The five day period of delay was based allo on the follo-1 g ob ryations

In 100 of 200 ca es of septic abortion ob erved in the period from 1911 to 1916 the uterus as emptied artifically during the febrile period and as soon as convenient after the patient's admission t the hospital. In the other 100 cases there was n local treatment. In the conserv tively treated cas the fever subsided more quickly the tritient wa discharged from the hospital soo er there vere fes er complications and the mortality rate w s la er

In the peroff om O tob r 1,15 to April 1919 a three-day period vas tried. An alarming post on rati e rise in the temperature occurred in not a few cases and the st v in the ho pital v as prolonged

In the onservatively treated cases of mevitable bortion high are revie ed in this article cureffage as done only when the bleeding threatene l l fe or the bloody discharge persisted for more th n ten days No patient with a temperature of 100 d grees F or above was curetted unless hamorrhage threat n d life. In similar ca es given active treatment cu ettage was done after the temp rature had r ached normal and had remained normal for five

If the hamorrhage a sufficiently severe to end ger I fe the uterus wa emptie l'regardless of the temperature and in such a man or as to caus the least possible traumatism to the uterus and surrounding tissues. When the uterus w empt ed in the presence of ic er the use of the cu rette was a orded if po sible Ovum forceps were used to remove the placental fragment which were often found protruding through the s it dilated cervix. In cases with dangerous hamotrhage it is rare that the cer ix is not sufficiently dilat d to ad m t the oyum forceps Curettage in afebrile cases

was don with the finger ovum forceps or cu ette d pending upon the cer cal dilatation Rect I exami ation w s done as a routine in all

The conclusions drawn from a study of 1000 cases of abo t on are the follo ing

2 Con ervati e treatment of abortion in febrile cases gi es better results than active therapy 2 The temperature of patients who have a five day afebril period h s a greater tendency to re main normal after c r ttage than that of patients

operated upon b f re the end of this period 3 Patients who have remain d afebrile for fi e days have a greater tendency to maintain a normal temperature than those ho are subjected to curet tage before the end of this rest period

4 In approximately 6.2 per cent of the cases evacuation of the uteru is necessary because of alarming hemotrhage

5 A plan of procedure which embodies a conservative rest period of five days of normal temperature in febrile and alchride cases seems to be a rational method for the treatment of abortion as it results in a decided decrease in the mortality C. II. But. V. D.

LABOR AND ITS COMPLICATIONS

Hiess \ The Fetal Indications for the Termina tion of Labor (De fort | Ind Lato ur C buts bee digung) | R en kl | R k s k | 9 3 t 44 405

The only indications for the termination of lalow which were reconsized by the older-obstetricans were indications on the part of the mother and in the period antefating an inegri stees were limited by the danger of infection. Terminational below as the only after the u e of in rethods for any epi and seepsia and recognition of the child's beautiful and the control of the child's beautiful and the control of the child's beautiful and the control of the child's beautiful and the control of the child since the great water of the child since the great and there of the other of the other of the child since the great and there of the other of the other of the child since the great and there of the other other

An extraordinary ph romenon of the last four years is the increase in the number of older primiparse. Apparently is this due to the shifting of the

classes in the social world

iccording to the statist es of the lienna Gyne cological Clinic for the last thi years 36 per cent of all children of normal size and weight died at birth or within et h. days firer birth. The great majority of the i f. its born dead (88 per cent) died drung jabor.

The most dependable sign of the condut on of the child in the fetal heart heat. In firm of to 87 percent of cases this slows down during the second stage of labor. During the pains the circulation of the blood is checked and as a result there is a temporary rest of the exchange of gases in the placents with the contract of the exchange of the placents with diouted in the fetal blood. It is this with it is responsible for the slowing of the fetal heart.

While the membranes are still instar there are many factors which are compensatorily but in the second stage of labor the conditions for the child are very unfavorable. The transform more more morphal to pathological is rapid. Exact knowledge of the heast sounds is necessary to the end of deli ery and will obvate many complications. Showing of the heart bed to be seen as to ablow the one of the new and fall in the complications. The same of the new and fall in the control of the condition of th

Sudden death of the infant without previous signs any occur as the result of interference with the circulation due to compression of the umbilical cord When the lift of the child is endangered the birth should be brought to an end only after all necessary preparations have been made for the more difficult the requisite operation the less favorable becomes the outlook.

the outlook

The cattook of the case of th

The maint morbility an uncomplicated pelvice pre-The maint morbility an uncomplicated pelvice present and per cent. In the cases of our minipare set was per cent. In the cases of old primipares the drawing down of the foot at the mich times appears to be of coasid rable advantage. In transverse presentation there may be indications for intervention ince without version the full term child is certain to die. There may be indications for intervention al on uncomplicated transverse presentation, the indiant morbility is 25 per cent.

In 352 classical cesarean sections the maternal mortality was 4, per cent and the ulant mortality 4, per cent. As feet from danger as the crisarian section appears in this a mortality of oper cent. As feet from danger as the crisarian section as the control of

I rolapse of the cord is an indication for intervention for the sake of both the mother and the child

The chef indication for the termination of labor on the part of the child is contracted pelvis of the mother. In such ca es the inflant mortality ranges from \$4 to 18 f. per cent. Contraction of the first degree means little to the child but contraction of the first degree means little to the child but contraction of the contraction o

Or the wh le from the standpoint of the child as well as of the mother a strictly conservative conduct of ch dbotth is generally to rect if the life of the mother is not to be needles ly indangered In eclampia a mille rours fler the lettela c for a favrable out me fir lith the miler the the child Mit ant of C

Horning R t Heu Sub Partu (lie 1 g rtis)

The author I cause considered by the second the best profession there as the position of the best profession to the columns of the profession that the second best profession to the best profession to the profession that the columns of the profession that the columns of the profession that the columns of the profession that the columns of the profession that the columns of the profession that the columns of the profession that the columns of the profession that t

The fat at was a jene r 1 man a it er ! of hir thir pryman v a el aftir te fist a lacty she a oper ted u nfr mil all mis A free A feeting to the a se t gra s mit me sager to gl th h theo ft Herm was tran plant bit at America month of the agrant It gatirt a it nig the lin fritwo year fin inin h farem fet e Samrekelitz najpe cm w 1 1 hamselate name contact after append at The fattern such as I white thirttream ur ti ji ia beginning 1 it is cky par with a crewed a we ft the great troger seef On Acrol at a h see the th eleictease tu Me i a at fthe bliffer the fit fal min ma mi inciramiene Wh the sation we be give parel fr b e e d urlar e untel tane uly the fifma f wight R a too Agm. It it to be I ver I of next out A pate by his ir a gate ne there in improvement in the sector confit in a linear time was seed med there to us after labor Ib large 1 tin w fullt 1 to the max mum nist at r thigh r r in mu lean 1 thin as 1 per 1 the discreted. Them me tith ut ru , , there we an plant on the gold stant large moof faces. If ut ru and we gold A testal tube as insert I t bey night point f compression. Immars union resulted

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In c clus n II rn ng tates that in very cale of fleu occurring furing gestation primary I girot

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Pinkow: The Result of a Ten Year Study of Sphills in the Mother and Child During Labor and in the Pareperium (1991) settly inger I in the Pareperium (1991) settly inger I in the Pareperium (1991) settly in the Pareperium (

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Hirst J C and B ch G. Labor injuries to the incrys and Ti in Treatment. In J O'l or

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y In hi ty to rise from the hir rept by ng the hands to hip elevate thi ti. The patient usually rice ritemays i teal tracht ur

The nitoms are it not belto sortenes in more relations on the normal number of the person of the per

As a rule pall time treatment should be continued in six month, all rith liquing in order to give the bole a chance than fine. Occas nail his ever the pain male such that earlier interference my beneressary.

To keep the patient from being discouraged by apparent lack of results during the waiting period at as wase to give her a placebo such as a mild counter irritant to be applied locally. The author recom mends a per cent sodire o niment

Daring the period of palliative treatment the natient cannot sit comfortably upon any type of chair but can be given relief by the use of an air

cushion

Operation should never be done for painful coccyx unless injury and separation of the frag ments can be clearly demonstrated. If an uninjured but painful coccyx is removed the pain will not be relieved

Removal of the coccyx is spoken of as a minor operation but the difficulties are such that it should he included among the major operations. However proper technique is used the risk to life is negli

gible

The indication for the operation is purely symptomatic and elective but in properly chosen cases there is no operation in gynecology with results LOWARD L CORNELL M D more gratifying

PHERPERIUM AND ITS COMPLICATIONS

Soll T For ign Protein Therapy in Puerperal Septicæmia (L. ter pote oter pa elle form sett che puerper li) R 11 d g c 19 4 u 189

The author reports 163 cases of puerperal senti camia treated with foreign protein consisting in the main of whole cow s milk and an Italian prepa ration of easein called aseal cal ico As a rule no other therapeutic measures were employed ex cept occasionally the use of d lute local disinfectants and the administration of cardiac stimulants as required. The reactions were practically all slight and none was alarming abscess at the site of in jection developed in only five cases

A first group of forty cases in which the conditions before hospitalization suggested danger of infection were treated prophylactically. In six the tem perature dropped by crisis within twenty four hours after the first injections but the author believes that probably these were of the type that after developing a fe er during labor promptly become afebrile after delivery when left enti ely alone With regard to thirty three cases Soli concludes that the treatment greatly modified the course of the sepsis that developed. The rem ining case was not influenced by the foreign protein

In the second group were thirty two cases of sepsis well localized at the vul a vagina or portio The injections were given every second day and the maximum number was four Local measures were also used The duration of the sepsis was from four to ten days in eight cases the second injection was followed by a crisis All of the patients in this group progressed well without extension of the epuc process

In the third group were cases in which the sepsis was clinically localized in the uterus. On the basis

of the chinical and laboratory findings. Soli subdivides them into cases of sapræmia and cases of sentic endometritis

There were sixteen cases of sapræmia Three re ceived in actions every day five received them every second day and eight received them every third day In seven cases the fever di appeared by crisis or by rapid lysis in the others the temperature came down slowly in from ten to twenty days. No

complications developed

There were eighteen cases of septic endometritis Blood cultures vere negative. The fever came down by crisis in six cases after the second or third in section in the others it came down by lysis in from twelve to nineteen days. In a single case after three injections of whole milk there was a turn for the worse further injections did not influence the course of the disease and death resulted on the twenty fifth day

In a group of five cases of puerperal parametritis foreign protein therapy gave excellent results

The same treatment was given also in fourteen cases of mammary lymphanecitis and mastitis While admitting that these cases usually progress well under local treatment, the author believes that resolution was hastened by the protein injections which were employed with or without additional local measures

In the last group there were nine cases of senti camia and three of pyamia. In six cases of septi cæmia and two of pvæmia recovery resulted the four others were fatal All of the patients in this group developed marked general reactions after each injection. In one case of py amia the treatment was begun on the seventh day of the d sease a crisis occurred after the third daily mye tion. It is in teresting to note that t o days before the crisis an abscess developed at one of the sites of injection

SAL ATORE DI PALMA M D

NEWBORN

Saenger The Origin of Intracranial Hamor rhages in the Newborn (U be de Entstehu g der takran llen Bl tu e b m \eugebor nen) Achf Gy ack 19 3 x 84

The vein of Calen which represents the collecting point for the veins of the cerebral peduncle and other cerebral and cerebellar veins undergoes a sudden transition into the barely distensible tube of the straight sinus. During congestion its position and freer distention make it a middle point of tension especially as it represents to a certain extent a narrow ste in the stream bed

The very minute hamorrhages often occurring in the vascular sheaths and the capillary ruptures in the region of the terminal v ins may be explained in this way As a result of the tran mi sion of the congestive tension to the vena falcis and tentoris there is a marked tens on in the tentorium from within The most frequent finding are hamatomata in the region of the straight sinus the expression of excessive congestion with slight tearing of the dura. If the tension of the falt is increased still more, the tentonium funtures.

Asphyan and cranual trauma are usually associated in the causation of intercranal hamorhage a physia alone cannot cause tearing of the vessels and without asphyans trauma can have the effect only fit is very severe. Hemorrhage was found in seventy three of roo autopsies and in forty six cases was severe. In forty three of these forty six cases the tentonum was ruptured.

Williamson A C Icterus Neonatorum and Its Relation 1 lp t the Waternal Blood Stream 18a 1 c M J 1924 x 1 72

Icterus neonatorum may be either patholog cal or phys ological II pathologi al there is usually a lesion demonstrable in or about the fiver. The jaundice appears at birth and becomes more intense until death.

The numerous theories as to the cause of the physiological type of acteurs may be days led into two main groups anatomical an I physiological. The anatomical theory that icteurs is due to the

The anatomical theory that icters is due to the transference of bile pigment from the meconium of the intestines to the blood stream by way of the patent ductus enosus is not tenable since the jaundice may occur even though meconium is pas ed prompily and spectrometric examination of the blood of the cord does not show bils ordin which is present in large amounts in the meconium

In the author's opinion the explanation of sterems reconstorms to be found in a combination of fetal blood destruction and the action of the fetal it is the experiments he found that the fetus excreted lattle or no iron by way of the meconium or ammotic fluid and that there is a direct relationship between the amount of iron present in the direct pl centa and the

medence of icterus

At birth the infant a ler takes up the funct nof
storing the iron. With the destruction of red blood
cells the amount of bit rubin becomes greater than
can be readily handled and irund ce results.

In a series of tests of the blood of women between the filth month of pregnancy and th onset of labor it was shown that there is no relationship between the bide pigment content of the maternal blood and icterus. The discovery of traces of split products of bilirubin in the placents seems to indicate that the placenta splits the bilirubin of the fetal blood stream and stores the ion

I LDWARD B KON MID

MISCELLANEOUS

Apple ate J C. Rational Obstetrics from the Teaching Newpoint Am J Ob t & Gynet 94 1 181

While the term rational rate unpless that some methods are trational the author states that

While the term rational rather imples that some methods are irrational the author states that this articl is not a criticism of any method or methods that have proved to be for the best interests of the mother and child in decreasing mortality and morbidity or in the alleviation of suffering during childbirth

The methods selected for discuss on regarding which opinions diding greatly are (1) the injudicious use of pituitrin (2) inconsistent theories regarding disphoresis in cellimpa (3) the shortening of the second stage of labor by forceps with or without the condition of the second stage of labor by forceps with or without produce termine. It is also as appeal from the reaching viewpoint for safeguards for women during pregamany and ad crussion of new applications of old methods used during labor. The danger of a new method lies not it hat son grator but with the new method lies not it hat son grator but with the thuisastic beginner. Higherony caches or the continuous control of the control

special lines or postgraduale work

In the clinics and teach ng at Temple University
Philadelphia no routine is permitted except in
minor allairs such as diet etc. Every case is given

indisidual study and management.
The physical examination includes the determination of the probable manner of delivery on the basis of the pelvic dimensions and the size presentation and position of the fetus.

As with el ctive cessarean section cales with definite and cations for version are determined in advance of abor while emergency section forceps defivery version and episiotomy are decided upon

during labor

The author gives his students the benefit of the teachings of other of incrains he sides may or may not differ from how the differ from how the differ from how the differ from how the differ from the differ from the differ from the differ should be made as short as it can be made consistently with the limits of all 7 yand as nearly paintess as possible with mild natrodization preferably aith minute doses of morph on eff. All and scopolimme (for dearn the different from

Mo her G C Maternal Morbidity and Mortality in the United St tes im J Ob: & Gy i 0 4 1 204

Maternal morb dity and mortality have not been reduced in the United States in the last trenty years according to the census reports in 6000 when the in labor annually. In the loss of mothers the United States stands fourteeath among the so called civilized nations only Spain a 6 delignma and relating to the state of the state o

The questionna re of the Committee on Maternal Welfare of the Ameri an Associati n of Obstet i cians and Gynecologists which was sent to every section of the country contained a request for the views of the correspondents regarding the causes of maternal morbidity and mortality and for sugges tions as to remedies for their improvement

The inevitable conclusion to be drawn from these large number of the thoughtful and progressive leaders of the profession may be summarized by the statement that much of the responsibility for the untoward results of childbirth rests upon the members of the medical profession.

The rapid decrease in the number of midwives in practice the more drastic supervision of them by Departments of Health in the regions where they are still popular or indepensable because of a lack of a sufficient number of physicians and the realization that their work among the part of the population which they serie shows no higher per course of the property of

In the towns and rural districts and very largely in the cities the parturient woman is cared for by the family physician because of tradition sentiment self-interest or convenience and the average results of his work will represent the basis of statistics.

statistic

This work will continue to be conducted in the home. The great majority of women who are serving to perpetuate the best elements of the human race belong to the class of intelligent self-respecting families who are dependent on sala ies or weekly wares. The disproportionately small amount of space allotted to such cases in the wards of hospitals the high pince of the rooms and the general coincident repress makes any but chartly hospital service prohibitive to this class of women Special nurses are equally prohibitive Obvously home confinements in volve much greater risk than confinements in the hospital

The causes operating to lower the standard of the work of the general practitioner are insufficient medical school training lack of hospital post graduate training in the diagnosis of abnormal post tions lack of appreciation of the fact that the process of labor is not surgical and failure to depend on the obstance lapecialist for diagnostic counsel rather than the contraction of the contraction of the contraction of the and orientation may be very limited.

Obstetrics should be made a specialty of the same rank as surgery as many hours of the college curr. culum should be given to the drilling of the medical student in the principles of the one as the other. In a larger degree the student needs a familiar knowledge of the art of obstetries because regardless of his training he will on entering practice be called upon to attend women in labor long before

he will be called upon to perform operative surgery. If every man who undertakes the care of a mater nity case could be compelled to take a short post graduate course every five years and could be in duced occasionally to attend one of the climics now being held annually in many of the large centers and in the meantime to read the standard medical jour mals the result would be quickly appreciable in the statistics of maternal morbidity and mortality.

EDWARD L CONSTILL MD

EDMARD T CORNETT MID

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Judd E S and Scholl A J The Surgery of Renal Tuberculosis inn S vg 1924 ltxxx 395

Eight hundred and seventy four cases of renal tuberculosis treated surgically are reported from the Mayo Clinic. The ki lney was removed in 265 cases exploration alone was done in time. Complete post operative data were obtainable on 611 cases

The usual procedure was a simple extraperitoneal lumbar nephrectomy. Subcapsular nephrectomy was performed in thirty five cases. In most of these the kidney was either extensively destroyed or had

been operated upon previously

Occasionally perinephritic infection occurs. In eight cases a perinephritic abscess was detained previous to nephrectomy. One patient due shortly after the second operation. In a second series of eight cases in which the perinephritic abscess was drained and the kidney was removed at the same operation there were two operations death.

In eighteen cases of bilateral infection the extensively diseased kidney was removed. Four patients died from numa immediately after the operation and ten died during the next eighteen months

Three hundred and fifty eight (\$8 6 per cent) of the 6:1 patients regarding whom complete post operative data were obtainable are cuted. The average length of time since the operation is four years. One hundred and ninct) one (\$12 per cent) are dead. Sixty two (to 1 per cent) still baxe evidence of tuberculosis of the gentle-unnary tract.

Tweaty three of the top pat ents who died followers an enphrectomy for unlateral tuberculous died during the fit month after operation. This number tepresented a 7 per cent of \$8,1 enphrectomies. Five patients died of uramin due to non tuberculous in cetting the control of th

Forty two (25 per cent) of 164 subsequent deaths occurred in the first year eighty three (200 per cent) between the second a diffth and twenty that the centre of the cent

Wheeler Sir W I De G; Some Renal Tum is S f Gy c & Obst 1924 x viii 143

CASE? This was a case of adenomosarroun embround) found in a child 8 months of age. After the first few months there was a gradual loss of we ght with enlargement of the abdomen. The only finding was a large abdom nal tumor on the left sade which extended beyond the midline and be came lost under the ribs above and in the life fossis below. Otherwise the child appeared healthy

In infants a growth of this type is intrarenal a d no unne is voided on the affected side. The renal substance forms a pseudo-capside. If the child is otherwise healthy and strong the condition of the opposite kidney need cause no annety. Cystoscopy and prelogization are until, dayse asale.

and pyeography are unity usipe saice.

The digrossis of the rapidly growing real tumors of inflancy is easy. Both kidness may be affected. There may be recurrent vomiting persistent constipation. Chargement of the superficial abbonumia to the superficial abbonumia to the superficial abbonumia to the superficial abbonumia to the superficial abbonumia to the superficial abbonumia to the superficial abbonumia to the superficial abbonumia persistent abbonumia to the superficial a

Case: The patient was a solven-old sound with a squatous cell carconom. The habory un majs as cystoscopy and reentgenography und; etc. the presence of multiple renal calcula and pas. Ne phrectomy was done. Sections of the kidney recarded calculous py nonphross and a squamous cell car comma among the at ophic and fibrosed glomerum and tubules. The pelvrs showed clusters of plasma and tubules.

Squamous cell carcinoma in the region of the pelvis is rare. In the great majority of cases it occurs in the presence of calcula as the result of irm tation. The I terature and c tes that the transition from one epithelium to the other is due directly to the presence of infection and ston s.

Case 3. The patient was a man sy e ro of age in whom an inground eveloped suddenly with severe harmaturia. Cystoscopy was impossible and rosent genography and urmalysis were negative for put and bacteria. Pulpition of the left renal region resulted almost immediately in the passage of a large quantity of blood. Nephrectomy was done. The angonal was found occupying the third upper calyz. It was not visible when the o gan was in situ although there was fee bleeding.

This condition is discoverable only after neph rectomy. The author suggests that it may account for the so called essential harmaturia.

Louis Neuwelt M D

Scholl A J Papillary Tumors of the Renal Pelvis S . G . C & Obst 1924

Tumors of the renal pelvis are usually of epithelial origin and the majority are papillary in type. In the early stages they are small often multiple flat or thickly pedunculated and confined to the renal They spread rapidly and extensively in volving the calices and sometimes the ureteral out let Obstruction of the ureteral outlet may cause an extensive pres ure atrophy of the renal cortex In the late stages the kidney becomes a distended sacculated often infe ted mass with complete loss of function The renal pelvs does not offer a free space for gro th like that of the urinary bladder the pelvis is rapidly filled and the papillomatous masses become matted together under tension so that they bulge from the pel is when the kidney is opened. The ureter is frequently in olved in transplants which are usually found in the normal ureteral constrictions The individual papilloma tous fronds are shorter and broader than similar growths in the bladder there is a more extensive fu ion of adjacent fronds and atypical cell masses are more common

In the bladder small papillomatous transplants may be found protruding from or surrounding the ureteral orifice. At times multiple small transplants are scattered extensi elv o er the mucosa of the bladder Histologically the majority of tumors of the renal nelvis as vell as the transplants in the ureter and bladder are mal grant. Chrically the numerous extensions and the local recurrences make all of these tumors malignant. Because of the fre quency with which the ureter involed and the repeated recurrences after nephrectomy a complete pephro ureterectomy is essential for e en partial

Eight papillary tumors of the renal pel is are reported \ll were histologically malignant. Three patients died fr m fi e to nine months after the operation One of these had a transplant to the ureter and another a la ge secondary gro th in the bladd r A fourth patient died f om uræmia four years after neph ectomy Four patients are still alive two are fee fom ecurren e two and one half years and four months respectively after the removal of the diseased kidn , and ureter and t o have had repeated transplants to the bladder requiring pers stent treatment but at the p e ent time are will to years and three years respect ely after the fir t operat on

Boeminghaus II The Physiology of the Ur ters (B t g z Phy long de li l t) Zt k f of Ch 9 3 x1 7

The urine is passed through the ureters by means of perist lsis. The sympathetic n e has a stim 1 lating eff ct upon the movements. In the dog the ureter with the abdominal cavity closed makes the same rept atory excursions as the kidneys and the peristals s produces lateral curvatures and shorten ings in the urete The shortening occurring during

persistal is follows immediately a ring of contraction of the circular fiber layer The rate of advancement approximates 2 to 3 cm a second By filling the kidney pelvis with a shadow producing substance (sodium bromide) with a dull cannula (in dogs) and viewing the result fluoroscopically it can be seen that the ureter forces the fluid into the bladder in the form of columns about 2 cm long which are senarated by sections of empty ureter

With average filling the pelvis of the kidney al of a column of fluid from the pelvis of the kidney to the bladder in a does preter 14 cm long was from three to five seconds The frequency of the ureteral movement is dependent upon the amount of urine Fill no of the bladder has no effect. The experiments yielded no evidence of a uretero ureteral reflex (that is an influence on the function of one ureter excited by stimulation of the ureter of the opposite side) Retroperistalsis in a ureter was not observed. Return flow of the urine from the bladder was not noted in cases in which the ureteral ostia were normal. On the contrary Boeminghaus has observed cystoscopically in man that during micturition the mouths of the ureters remain closed. He attributes this to the active con traction of the bladder musculature and passive clos ure of the valve at the lower end of the ureter caused by the increased intravesicular pressure

HELLER (7.)

Day R \ Ectopic Opening of the Ureter in the Male with the Report of a Case J Urol 1924 30

Eighty five cases of ectopic openings of the ureter have been reported fifty one in females and thirty four in males Thirty two of the latter were found at autopsy and two at operation Over half of those in the female were diagnosed clinic lly

In the very interesting case reported by Day the left ureteral opening was found in the posterior urethra A diagnosis of pus kidney was made and a nephro ureterectomy was performed. Except for the formation of a small sac at the vesical end of the ureter which was later dissected out recovery was un ventful C D PICKRELL M D

Bland I B The Treatment of Accidental Oc clu ion of the Ur ter fil to M J 1924 xxvn 34

The author di cusses the different phases of ureteral injuries in su gical operations the various sequelæ of such injuries and the indications and methods of treatment

Ureteral injury is an accident of great importance It may occur during the performance of pelvic and kidney surgery and is most frequent in abdominal and vaginal hysterectomy and the removal of in traligamentous tumo s

The most common forms of ureteral injury are ligation incision excision and necrosis following manipulation or cutting off of the blood supply If touts it wough a light few or unterly assigned in the learner is a larger lift in the term of the larger is a larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in the larger lift in larger lift in larger lift in larger lift.

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BLADDER L'RETHEA AND LENIS

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Trassitronit for frist the folia with nimit a therebie thiffeelt tar I syri g Wien tie e fe t that et em l antetenget tistlet sint and extended tradity and a self grad of the three burght the three three traditions and the service of the first tradition of the service of tire ti e ft war th gmi 1 1 cattle to the ase to by the bling till legth It nem lantite mit that the tere unthas an setute his musitains argust a lei tor a len wo th til gen a the a mil t and as all dit a mark fi tel fe th 1 je m is mert r the post a r rethr. The last r always apper a a c m h wleafer t th lacol the the for Went that ift ! lit the opa mel ni lef e th urethrig m prade to outle of the entil be tie me t

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ten mic with per lings.

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GENITAL ORCAYS

Dret it a l'hemier te tat is i feitan ef the ser at our entire for a wahere to the If thekn " t the street allet ter p I t spr Th t I tal to p >ltmatre-tolthere I es he anded ety at et eura ent mir ebiteunite The grathy go I see lower or b the er gibe its on the its of the i te la e at a fall t bam fibelb ber a in first liberatum liber in air the s at t and te - 1 ath telt to with The material tool of the second of the tell of the land the form Committee to be took to be took to be took to be took to be took took to be took to be took to be took to be took to be took to be took took to be took to a 1 th see it 1 -in erse that to Got r he is the istraction of the control maurte it the till f mitm Alm mt maded and teleminate with 1th Talithical tolerations. The distance tights of the more fabe. 1 h hera In the st rt n ast ut tre while the te rour! chifteriul it will la hro tipe i which their f 11 1 ti t cantha which m gett this the all f the ves le ent limini bat 1 m n

therefers all 1 It is always sociated with the column at 1 10 are at 1 nain the nunt gt 4 tr m give te lee wat freet 1 f the prostate. Loysley behaves that because of the intimate a sociation of the ty o organs the prostate practically al ave infected

The diagnosis of seminal ve iculiti is ba ed on the his ore and the physical and laborators finding

In the ca es observed by the authors the com mon symptoms were a watery unothral discharge re current epididemite pain about the rectum and perincum impotentia sexual cakness with pre mature ejaculation backache arthritis disuria and mental depression

The authors em ha uze the importance of a com plete physical examination because there may be other foci of infection hich should be removed The advise obtain or the specimen from the seminal ses cles for bacteriological examination through a

sterile endoscope

In d scussing the non surg cal treatment Belfield s method and its modification by L pinasse and others are mentioned. The authors treat chronic seminal vesiculity by injecting to per cent argyrol

through the ejaculatory ducts

At the New York Hospital Delzell and Lowsley have found it necessary to oper te in only nine cases of seminal vesiculitis in the last two years. This is a small number when one considers the fact that f om forty to fifty gonorrh cal or post gonorrhocal cases are treated daily. The authors recommend palliative treatment before rad cal measures

Thei conclu ions are as follows

All cases of sem nal ves cultus except those with abscess formation should ha e the benefit of palhative t eatment before by g subjected to oper ative procedures

The seminal vesicles may be injected with anti eptic through the ejacul tory du to

3 This p ocedure improves the dramage of the seminal vesicle by dilating the ejaculatory duct and afford an easy method to medication and for seminal vesiculography

4 Sem al vesiculography is useful in diagnosing ch on c absces fo m t on of the semin l esicles stricture of the vasa deferentia or jaculatory ducts and other pathologic or anomalous conditions

A number of reentgenograms and photographs il lustrate the article

SHEA begins he p per with a di cu sion of the

anatomy and physiology of the s min I vesicles He describes the gonor horal and non gonorrhoral types of infect on with case reports and discus es the non su gic I surgical and cce sors t eatment. The ticle s illustrat d with drawings and oentgeno

g ams showing the anatomy of the seminal ves cles ladder prostate ureter as etc

In Shea op mon the fact that Is mphatics of the seminal vesicles empty into the glands along the common that artery accounts for the f equency with which the joints of the legs are involed secondar ly in a es of sem nal ve icle infection Fr quently Shea has found the fluid exp e sed

f om the vesicles fre from bacteria but later di cov red bacteria in the wall. The products of in fection thro n into the blood stream in the form of toxing etc are transmitted to a joint. In some cases the injected seminal vesicles are not palpable. In others the expresse I fluid may contain no ous

Shea credits I uller with being the first to call at tention to the seminal vesicle as a focus of infection particularly in arthriti Fuller also advocated sur gical removal of these organs

Infection of the seminal vesicles may be secondary to a focus in the teeth or tonsils. In such cases the vesicles may supply toxins to the synovial mem branes after the original focus has been removed

In conorrhocal seminal vesiculitis there is marked chronicity with periodic expulsion of septic material into the general circulation This infection is usually a continuation through the ejaculatory ducts of an anterior urethratis

Von gonortheral infection may gain entrance to the seminal ve icles from infected urine through the enculatory ducts from the blood stream as in septicamia and from the lymph stream

The symptoms of seminal vesicle infection in clude pain in the genito urinary tract increased sexual desire to impotency and chronic urethral di charge which re ists all ordinary methods of treatment

Palliative treatment requires more time but the vesicles should be saved when possible. The pros tate should always be treated with the vesicles. The author advises stripping the vesicles hot applica tions vasopuncture and the injection of 10 per cent argyrol through the ejaculatory ducts

In certain types of disease of the seminal vesicles surgery is necessary Absces formation requires drainage by vesiculotomy. The hard sclerotic drainage by vesiculotomy vesicle should be removed

Accessory treatment consists of wintergreen dres

ings baking etc

The author's study was based on twenty three case of gonorrhord infection and seven cases of non gonotrheeal infection. The patients ages ranged from 16 to 38 years and the duration of the d sease from two days to four years Conorrhora was go en as the cause in 45 per cent of the cases exposure to cold or dampness in 14 per cent and excessive u e of alcohol in 6 per cent In 35 per cent the cause was not known The conclusions drawn are the following

In all ca s of arthritis in the male rectal ex amination is necessary

2 E ery case of arthritis complicated by vesic ulit s and in which there is a focus of infection in some other area should recei e suitable accessory

urological tr atment 3 Case of arthritis accompanied by vesiculitis ithout a history of gonorrhoa should be examined

to other foca 4 Early treatment of the seminal vesicles is es sent al for good results Improvement in arthritic change, is all that can be expected after changes have taken place in the cartilage and bone

GILBERT | THOM & M D

Ballenge F G Elder O F and Lake W F Demonstration of Prostate Inlargement by the Roomigen Ray After Distending it e Blad der with Air Preliminary Repo t J im M 1 s 1914 lxx 1021

Cystography clearly demonstrates intriveical nouts median lobe enlargements of the prostate etc. It is not in licated in every case being of value chelly in those in which add tional informatin is necessary to decrife whether an operation is required and whether it should be done by the supposition of the period approach. The technique is

the following The usual intestinal preparation is or level and just before the examination the bladder is emptied as completely as possible. The patient i place ! on the Buckey dias bragm in the 1 real postion and the residual urine is catheterized and mea ure ! \ rubl er band is place I aroun I the penis to present the escape of air To the end of the catheter is at tached a rectal drip s hich has been loosely packed with Cotton an i sterilized. To the other end of the drip is attached a piece of rubber tubing about 8 in long and \$6 in in diameter just large enough to fit the drip snugly To the of pos te end of the tubing is attached a bulb such as the Oblo to 1 The patient is then placed face downward with the symphysis directly in the center of the Buckey diaphraem hing flat with the spine straight. The buttocks are separate i as far as possible an i suff cient compression is made with a can as band to hold them agart. Local anasthesia is induced to lessen the pain fr in the cath ter and the injection

of air. The tube is adjusted at an angle of 20.1 grees to direct the rax upward through the policy ring, the ladds a gently, and slowly indiated and the exception of the ray of the ladds are to the ladds at the ladds are to the ladds and the ladds are to the ladds and the ladds are to the ladds and the ladds are to the ladds and the ladds are to the ladds and the ladds are to find a ladd ar

(issuto A Urethral Steno es Foll | # Pr ta tect my and # (v of C mplete Urethral Obstruction (I t nos u et 1 d po | p t t t ma sp sod st c mil tad II t) RJ and 1934 | s

In a thests publish d in 1921 Gr gorakis collected eight cases of prostatectomy in which ur thral striture was found. All ere cured either by gradual urethral dilatation or by internal or external ure throtomy.

Cassuto reports a case n which there as complete urethral obstruct on Only two similar cas a have been described in the literature in the given majority the obstruction was only partial. The author a patient had had a prostatectomy a year previously and came to the hospital in a very tone condition from retention of urine. All attempts to pass as und failed and it was necessary to open the bladd and establish retrograde catheteriat on the exploration a daughtering of establish retrograde catheteriat on the exploration of subpragmoff resident interest and summer of the urethral canal. A Rengue soon lumen of the urethral canal. A Rengue soon become of the urethral canal as forced brough the obstruct on and a Vallecot sound was left in the urethral for fiften of a 5 M it end of that time gradual distation with the B neque sound was be can after an weeks the patient was able to innate was Aller out to innate the sound was the condition of the sound was the condition of the sound was the condition of the sound was the condition of the sound was the condition of the sound was the condition of the sound was

The obstructing disphragm was clearly due to

the previous prostatectoms

The two other cases of complete urethral obstruction following prostatectom; were reported by I ou son and Vicolich. In Pousson a case a creat ricial stricture completely blocked the neck of the blad for and necessitated a surg all operation by the hypogastine route.

In Nrol ch s ca c that of a man aged 80 years who had been subject d to prostatectomy it was imposs it le to introduce a catheter into the bladder As Nrol ch did not with the patient to und rgo the ordeal of a second operation he established permanent hypogestic draining

Withough the complete on of unethral stricture is rate the possibility of its occurrence should be borne in mind by the surgeon and during and after operation efforts should be made to present it.

Thom s B A Fact rs R pon lbl for Reduction
of M tality and Morbidity in Prostatectomy
f in M 1 0 4 i S1

In the auth r opinion the refinements in the largons and treatment of prostatic conditions have can be I that maximum and further reduction in the meaning and most like it not to be expected to the control of the control of the control of the period of the control of the period of the period of the control of the period of the control of the period of the control

fith of the cases referred to h m for prostatectomy. In most important factor is the kidney function. Many deaths attributed to other conditions are due to poor renal function.

people and the people of the people of the people of the people of the candition of the cardown as the candition of the cardown as the people of the people

as a routine before a d after operation.
In the choice of the anasthetic the condition of

the lungs must be considered

To as at him in determining the operative route Thomas uses the exploscope. He employs the peri al route for cases of small inflammatory or fibrotic lands. The punch operation without existence the punch is used a suprapility existence in which the punch is used a suprapility existence in which the punch is used a suprapility existence in some land of the punch is used to be a superapility of the punch is used in the period of the land of the punch is used in the period operation in 23 B art cast.

In the pre operative care the bladder should be drained to permit decompression and readjustment of the 1 diags. In most instances continuous cath eterization is effective. Primary cystotomy is necessary when certain definite complications are present Duch complications are noted in 13 pc. cent of the

author s cases

Thomas regards the routine two stage prostate tony as unise. The operat is etempare and the method of enucleation are of less importance than the three salety lactors di cussed. When the pa tuent 1 a good surpcial rik the choice of the anishtener is of econdary importance. The emanshance is of econdary importance. The emanth of the control of the control of the carried out by following the prope lines of deavage and by preserving the external vesical spin cter thereby avoiding the ple us of 'untornit the occur thereby avoiding the ple us of 'untornit the occur thereby avoiding the ple us of 'untornit the occur therefore of unnecessary harmorphage and incontinence

When removing the prestate by the sup apulous toute the author uses the int a uterhal technique Hamorrhuge is controlled by suture o by the pneumatic hard flagger o Pulcher Thomas never finds it ne essars to pack the prestate bed and has never lost a patient from hamorrhuge Trep placement of the drainst of importan e. The suprapulous wound should be closed in seve all layers so that healing will be more empire and leakage from the bladder will be less! alghe to occur.

When doing a termical post tectiony the author uses the Joung technique except that he makes a rectangular incision. The most important precaution in this appro, this the a ordinace of the fibers of the compressor our three mustle. This is accomplished by incising the urethra abo e the triangle hammen. The author describes so early refractors

io u e m per neal prostatectomy

The most important consideration in the post operative care is the administration of saline solution. In Thomas cases this is given under the breasts after the perineal operation and by proc toclysis after the suprapiphic operation. Occasion ally glucose and sods solution are used.

Thomas v. ns against forcing the patient out of bed too soon but states also that he should not be llowed to remain in bed too long. His position should be changed frequently to pre-ent lung com-

Thomas uses a special sup apubic drainage cup that is intended to keep the patient dry at all times. In may cases infection of the bit deer makes daily total irrigation necessary. This will prevent ascending infect on which may be a troublesome

complication Forced water the administration of a urinary antiseptic an i the cautious continuation of renal and cardiac stimulants are necessary for the best results

Of 128 consecutive cases it enty three were not operated upon Eleven patients were non operable three refused operation three died following pre luminary cystotomy and seven died in the course of routine preliminary catheterization. Of the rog others 76 a per cent were operated upon by the suprapulse route and 23 8 per cent by the perineal route. The complications found are described in detail. The operative mortality was 3 8 per cent.

Thomas includes in hi article numerous drawings illustrating the operative technique

GILBERT J THOMAS M D

Lund F B New Growtl s in Undescended Tes ticles Bo to M & S J 924 c 533

Lund discusses malignan) in undescended testes reviews the literature recounts his experience in one of the large ho pitals of Boston and gives his opinion re arding the best method of treating undescended teste.

When operating for malignant testers Lund re moves by an intra abdominal or extra abdominal route all gland situated along the large vessels He quotes Eving and Maldory, ho believe all tu mors of the testicle are of embry not congin. They are classified as embryomita, hen of embryonic for m and as teratomata, when the ectodermic en todetermic and mesodermic elements are present

It has long been hel eved that the development of malganare's greater in on leacended testes than in those normally placed. Lund cites the statistics from the literature on this subject and state that until recently he had never seen malganare, in an unde cended testicle but that during a very short time before this article as written he san four time before this article as written he san four cases. These he repo ts in detail. He believes malignancy is more apt to develop in the undescended testicle than in the normally placed testicle and concludes that as a cure of the herma is more often possible when the testicle; removed such removal is good surgery provided the testicle on the other side is normal.

One may be a surgery provided the testicle on the other side is normal.

One may find the strictle in a first proposals who may be a surgery provided the testicle on the other side is normal.

One may be a surgery provided the testicle on the other side is normal.

Walker A M T sticular Grafts L cel 19 4

Grafts of testicles from the lower animals are r p div absorbed but good results are sometimes obtained since during the process of absorption a portion of their internal secretion finds its way into the blood stream \(\colon\) found that grafts from the highest pass survive much longer in the human body than those from the lower animal

Walker believes that the chances of success are greater if human tissue is used. He therefore emplo's ectopic test dies which though deficient as regards spermatogenesis are usually well developed from the standpoint of internal secretion. Lip chuizsh elithia littles spercent fithe total testicular tru i uffernt t maintair medicits

In the circs revew little gaft were eml [1] in the tunior vaginal in fins h I not been this site of pill I gical process a. Whin the tunior vaginalish labem 11 trated [1] e. e. this were littled in the rectus mucle and in a sulpertoneal procest. The changue of the operation is I or bad in detail. I minist in of the circs fitte operation site a legical interaction in the metals live.

While the results obtained if m testicular grafts are ery pron using the rute limitation to the use this mit to lay ut? In the liffculty in blaining mat ril mice e are sil m cylled upon it trad a tettud recultin aline. In congenital rily crest the deficiency in right life in friend to the results like millione of the call ring rily in the riminate.

litte become involved.

The author councile from his beers to as that a troe so absorption gies in firm the beginning in it that a life of two vacuum is the most that can be expected of grift. However the relation some comits he perman in a Voor howing semi of

uruelism ho is p rated on at the peri d of pubert will hav the u ual sex development and confurs m cul e x char cterist cs. Sever I intere to g cases are from tiel.

Harry II Prace wrers M.D.

MISCELLANEOUS

Wardill W F M A Techniqu for Cystoscopy in the Pre nce f Pu and Blood La 1 9 4

Mer washing the bladler the auth r myester thrugh the catheter from 8 t 10 or 0 steels parafin at loody temperature with a Higgmon synng or an aparat devised by him Cathese cys 1 th n don 10 the u ual m n or The unne and 11 M slaws to the m 1 per feat part. Letter 1 utilises look mu hike but bles of air. Mere noder til experimental work two samples with a specific of the proper til the proper

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Ro enburg G O teomyelitis and Injury (O-te)my 1ti u d U f il) 4 h f e ih p U f il Ch 1923 V 595

The relationship bett cen trauma and o teo melitis is not yet known. In many ca es osteomic litts appears as a metastitic suppuration following a very in remident p many infection such as a follicult it its to be assumed fetting such as a discussion when the virulence and the numb r of bacteria over come the be tericidal power of the marro

It has been demon trate! p rimentall that trauma is not necessary for the elopment of osteomyelit and this is not of same at the discontinuous discontinuous and this is not of same at the discontinuous discontinuous and the same at the discontinuous disc

sibil ties

1 Bacteria from the blo d t eam may b come

lodged in the injured area
2 Progenic org ni m n the lon m fill
in a hæmatoma aused by the injury favorable

site for multiplication
3 The ruptur of an 11 c p ulat d b cterial

focus may free micro org m a d st mulate them to renew 1 act vit The following t mila a e t be on ilered as

possible facto mech claquire thermic in junes (ch ling v ting fre g burning) chem cal injunes (er ion ind p ioning) been in injunes (all infecti us ind ont gous on litons) el citrcit injunes a distrip due g ical injunes (such as the pulling of pone full c in arti g muscles on their bonv i sert on j

With regard to the relation hip bet een o teo myelit and mech nic linju v i a gi en c e the following que tion mu t be in were i

I Wa th eactu lis n injury Frequently the truma ment on d by the p tient is fictited. In other cases it may have c us d a loc l injury of

s me mportance

Was the injury such as ould ause a diturlince of the normal rel tions of the bone? Brief interf rence with the finet on fipart of the bod in ght cause a disturbance the bod imarow favor 1 g supportation

quest inflammat on The leli jury must be prived by effuin of lool rithe sins of a skin

ound However osteomy clitis may are e metastat scalls from suppuration due to an injury and as the result of concu sion of the bone may develop in a site indirectly affected

4 Can the connection in time be proved? All though in a case of very severe injury there may be a very long period of latency this period usually

does not e ceed fourteen days

Many physician are so consinced that traum plays an important rôle in the etiology of osteo meditis that they find it in the his tory whether it is there or not. In the author so pinon trauma can frequently be ruled out. In fift one cases studied by him a relationship between traum and osteo mechits could be recognize in only twelve.

TENICK (7)

Henderso M S Chr n c Sclero ing Osteit s

The author peaks of chrome p oliferatus seleros ingo tetti as a definite chinical entit due probably to a los grade infection. In the roentgenortrun it to characterized by a pindle shaped thickening of the shaft of the bone reduction in the medulity, cutti and increase defients. Compliant; imade of a deep boring prin which; i usually, or c at the control of the co

Observations in thirty case are reported. The majority of the patients yere male and under 30 o age The a erage duration of symptoms was six years Operations ere performed in seventeen ca es. Of the twel e patients traced nine were definitely relieved two were releved only t mpo ar ly and one was not relieved. At operation, both corti es i ere pie ced by multiple drill holes or the bone as guttered by chi eli g off the cort . The object of this procedure vas to impro e the c rcula tion the idea being that a part of the trouble vas due to impairment of the circul tion resulting ir m the ery dense bone. Microscopic examinations of the more like to tex revealed evidence of ove activity in the production of bone 1th con quent choking off of the blood es el

The different I diagnoss is most important since the condition may be mit. He not synhils serround I at cf. dease or osterius firm is existed. Attention is called to the trendency of synhips constitute form an uree-lar turn r bricker on one osterius to form on the large transportant to the manufacture of the partial shape is solving to the modern not of the partial shape is solving and to the turns outline in \$\text{\capacity}\$ and to the horizontal turns outline in \$\text{\capacity}\$ and to the diagram that the shape is considered in the same of the partial shape is shaped in the same of the partial shape is considered in the same of the partial shaped in the partial shape

Differential Diagnosis Cle n & Sclerosi & Ostestis (Henle son)

	٠,	Age ye ro	1 (ec iou sology	Tr. m	Suppure	Du k	P! 4	Feve d leuco ytes	F 1 reed	R ray (and a	ute
Sel real goat If	11 les	,) te	I f great	Ot keal	Long) es	M y be presen	Seldom	Probf	had from
e so early t	Vi les pt bide	tay	`	Fqeat	`	Sho t	oz iy	L	Ofen	Des ru ion	Epiphysis
Տիլեն	Males		`	OL 1	`	Long)=	`	Nor	Proff ers son	ha. pophys
P pr ducage	M les	11	`	`	₹ ye	Log	١.	1200	\ wase	Prol(E tre

Coley W B The Progn sisin Clant Cell Sarc ma of the Long Bone 1 f g 924 l 1 32

This article is best upon the data and end results in a eries of fifty cases treat I by the author Coley to lews the literature an I frift of opini n

regarding the treatment at I rognos of g ant cell streams is or ling to one the ri the so-called benign g ant cell tumor is entirely an inflammatory proce with exuberant granul tion (is ue an lisidue to trauma Maton believed that these tumors metasta ized but (to pro ed l t r that this is inc rrect

Of twenty patients wh se c s w fe r portell's Kocher thirteen who wer subjected to amputation he l of meta t es and onl two remained well. Of four tre tel by resects no e died fahe perati n one liel of m t states and to rem in i well Therefo e o ly fou of the pati nts were kno nt be hving an iv ell after three years. One mu t conclu le that few of the neorlasm were being g nt ell

Blor igood wh was one of the first to attempt a scientific study of the mal gn nes of g ant cell tu mors est blist d the fact that the gr at majorit are only loc lly m lignant

Until recently mo t of th tumors ere tre it by amputate a becau the catholig triport dith tumor a sarcoma and rega de I t as mil gnant

In the authors pen on rap ig wth ani t 1 sive prigres on of the tu or shull not being rd ! as in lications for \ray rrilum tr tment until effects of such treatm at II believes that amou tation f the part all meet the situation better This is the bor! I ne case He re ognizes the mal g nancy of certai gi nt cell sarcomata a 1 the fact that these metastasize

The m temportant at i in the is gnosts is explir tory operation. In I ating that lang r from the lure is larg ly the r ti al is the fact that th great majo to of cur d cases have been c es in which e pl r tory operation as perf rmed

There is at present o un form method of treating g ant cell sarcoma. The lance linisto y should be carefully t k n nd supplemente I by a thorough ph s cal ex min tion and an \r ; examin ti n In many cases ho e er a accurate d gnosis can

not be made positively without a microscopic ex am n t on an I sometimes not e en with it

For simple cases the author ad ocates curettage

followed by the applicate n of carbolic acid in the cavity In a lyance I ca es he uses in ad! tion the s of respelas and lacillus prodigiosus mixe! 1 sometimes combine t with \ ray or radium treat

In the seri s of cases revewed amoutation was performe i nineteen time but in only ten cases as a I filmary measure in nine cases it wis dine because I failure of cons rs tive measures to control the 1

At the present time C. I s has a number of cases un i r treatment with \ rav an i r d m Most of them are howing impr m nt but in none has the tum r d appe red or h s aff cient time elapsed for a cure Col v bel a st un se to introduce radium tules into a cas toof bo fter curettage

Of a en of el ven pati nts treated by amputa t n e n d I of metastases. Secon lars amouta t a as d ne in eight ca es because failure of th first to effect a ure or becau e of complications. Of the fifty p tients in the sen's thirty to ar living Se en have not been trace! In thirty four cases the limit was a ed. Mo tof the patients were bet en 20 an 1 30 v ars of age I fty six per cent g \ a hi tory of trauma

R BERT \ Ft

n Joints (C i k 1 I hido B Studi g) 4 hf pih 1 1 93 ch 44

Ish d lesignates as the borderline the deeply st n ng an I theref re distinct van sometimes r duplicated I hich is seen in all n rmal speci mens at the borders of the cart leg and bone of the bone en l of the joint I m tud es of the borde l e 1 specimen t ken from cases of t berculous c itis and fracture fitle patella h concludes that the bon substance n rib d by blood essels a I that the sub t no of the cartilage derives the

g extest part of its nutrime t f om the j int fl id The horderline is th refore n t only an architec t t line but also the dividing le bet cen two reas of n trition. As injuries of the cartilage on th o e hand an i change in the cartil ge o th

ther may attack and destroy the borderline the

disappearance of the borderlines may result from
(1) chemical changes in the articular fluid (injury
of the cartilage) and (2) tovins in the capillaries
of the bone marrow

LOUPPILE (Z)

Martin Lagos F Volkmann's Ischæmic Contrac ture (Contractura isquémica de Volkm n) Cl y l b 1921 iii 15

From a study of the literature and clinical cases the author reaches the following conclusions

1 The application of even a loose bandage make followed by ischarmic contracture if the brachable actery, is compressed as for example when it is elevated by the superior fragment of a supracondy and fracture. However a factor essential for the de elopment of ischemic contracture is severe in jury of the anatomotic arteries of the brach al artery their compression by a harmatoma or their obstruction by an embolis.

All factors capable of producing an ischæma limited to one muscle group (severe contusions crushing etc) may produce this contracture. The most i equent cau e is a supracondyloid fracture associated with extension and poster or dislocation

of the elbow

3 Of the three theories offered to explain Volkmanns contructure the oldest that attributing it to vascular lessons: the only one which satisfactorily acounts for its pathogenesis.

4 The anatomy of the vessels mu cles and aponeuros of the elbox explains why after a supra condylo d fir cture the extension posterior dis location or extensive contust in the file or muscles are tho e which suffer necrosis

5 According to the vorks of Fletche. Hi and others the first contracture is caused by the lactue and formed in the muscle fibers and not transformed because of msufficient if the supply of origing. This is followed by c. gulation and necrosis of the muscle substance.

6 Bardenhauer's thory that the nec osi is due to the carbonic acid produced by venous stasis has

not been e perimentally proved

- 7 The theory ascribing the condition to the sympathetic erves cann t be confirmed because the action of the ymp thetic thers upon muscle is not known
- 8 The pathol g cal anatomy cons ts in a hal ne degenerati n of the mus le substance produced prob ably by the coagulati g act on of the l cite acid and follo e l by destruction and r placement by con n ctt e tissue
- 9 In e ery ca e of fracture dislocation or severe c at ion of the lbo the adi l and ulnar pul e hould b w tchel not only imme lately fier the 1 jury but lso during the three or four follo ing days
- 10 When the radial pulse fail and blood does not flow in spite of all attempts at bloodless or operative eduction of the fracture or d slot tion an I freeing of the compressed artery an arteriotomy should be done

II When the contracture has already developed bloodless treatment by means of apparatus is ef fective only if the lesion is relatively recent

12 Klapp's operative treatment resection of the wrist is the method of choice being simple rapid and without danger

13 Before a patient with Volkmann contracture is operated upon an examination should be made to determine whether there is a lesson of the nerves of the forearm in order that a neurolysis or even resection of the traumatized nerve may be done at the same time if nece sary.

14. If there is a healthy group of muscles in the forearm in a case of irreparalle herve lesion the bone resection should be done first and later at a second operation anastomosis of the healthy muscles to the end of the principal injured muscles should be done.
W. A. RRENAM

Bergmann E Tuberculous Spondyllits and the R sults of Its Conservative Ambulatory Treat ment (Die Sp ndylt tube ulo a und d Re ltate in r k n r t en møl nten B hand l g) 1 ch f rik p L f ll Ch 193 xxi 18

The author found 342 cases of tuberculous spon dyluis among 35 oop pathological case which in cluded 1497 cases of surgical tuberculous Among the varieties of surgical tuberculous at the varieties of surgical tuberculous suberculous spondy little stood second. Fifty three per cent of the fastients were miles and forty seem were females in the author's opinion the indicates of trauma has in the author's opinion the indicates of trauma has of life the conditions will find first five years of life the conditions will find the standard and there are the some common ju females but in the third decade and there after it is more common ju females.

In regard to age it was found that in almost one half of the cases the condition developed in the first five years of I is and in two third in the first decade. The highest incidence was reached in the fourth year.

The site of the disease was as follows cervical vertebrae 9 per cent dorsal vertebrae 53 per cent lumbar vertebrae 38 per cent. The vertebrae most frequently involved were the twelfith dorsal (24 6 per cent) and the first lumbar (187 per cent) and the first lumbar (187 per cent).

The number of vertebræ attacked was one in fifty one cases two in 117 cases and three or more in fifty four cases

Abscesses were discovered in 20 per cent of the cases The, were most frequent in discase of the lumbar spinal column (42 per cent of the cases) and teast common in d sease of the terrival lips (6 per cent). In 90 per cent of the cases complicated (6 per cent). In 90 per cent of the cases complicated by abscess more than one vertebra was discased Paralysis was present in 6 per cent. The author assembles the relatively low incidence of abscesses and paralysis to the fact that the greater number of this seserce cases were admitted directly to the loop puts without passing through the outpattent department. In 85 per cent of the cases of paralysis

the site of the li case was in the I real vertel rethe mer lene was about the sam f e ases in which only one vert bra w . I ease! an! those in which several were invol ed

Im ng the striki g ig s f the online the auth r pla trst the pragit to I r I which a alm st always resent abor n I below the keep

an list athogn mot fage n lift s

Sixter ni ith painth i in litter of tubercult. The etmater grill to kw but a tulerrul u tant i g erally flist im pertane in st. n.l. liti. In a lew ases the r. r.t. illis atte rel a a sen el fa ut infe ti lisease A ! Inte | um | r | led | in at ut | per cent but pril bly a tel nis t ar fuce an

area of himin heil re t ne

As ambulat to tr tm nt th Tol line . 11 to effect the ilterile the true types of o et Ih tratment w e nu u l until the grace bald all which request but at noffnnf-uanf ur thi tho jatient r kedt nik frr ru , this examination who had belte ten of fir t lea t five y ars the presente bun in Cemai re examinati r f nl lm t f tu in th who return are I ils those while amount mi

Of according mm t if an x mi an n nfs thirty fy after red to blide! Of the thirty five re ex mired nine (20 per cent) w re untur ! and nin had ever yer ere mald formites Of the re mig entren wh e on

lition wa hal I thirte o h wed sight form t s f the some al al f ur a terl cure im g those who wer in a cuted it with so re feform to sweenent hint m leut the or lers given In f e a cs the tr atm nt wa n sul cient. Of these n t treated nis one be m cut I with go ad function in I a small gill us. It best results were obtened in the ares in hi have ertebræ wer fre el

In the flil let ran t cl th Allee operation h n entirely go en up a it result w re n letter atit tratm nt th n those obtained with n Di: (7)

Bloodeand J. C. B. nien B. ne (v. ta.: D. teiti Fibros | Ac tabula Cavity Upper End of Le

Bloodgood are ents a number of a cs of sterti file a illustrate g the effect v ne s f con ers tive treatment

CASE 2 The pitient was a box 8 3 373 of J who had a b nigh cyst of the acctabular ca ity Ile symptoms were the e typical of his joint tubercu loss viz pain in the hip and knee a lmi a l slight flexion and a ljuction e atracture 7h \ ray show d a definite cyst of the lower and medial si le of the acctabulum. The tre tment consiste I of al solute rest in be I and heliotlerany I our month

later the low was braically well and the \ ray sh claim at e mp ten sation of the esst Ile auth r states that I the nte un ler se vears

of ag he ill be tre tel con matisely unles the I fav at ans entire m at of the e at when opera ti e int rierence i in l at f

LA E 2 Inth instance there wa a larme of st of the next of the f mur ith partial on that in The first nute a mpt on had I velope I twenty y ar Is an I ince then there halbe nant mber f recurr nees It the present time the patient his a Imp a I pun whi his increased by xerrie the alte a prof lis originated to chilibral who are a ver level nel No operation is in ! tel unles th sampt me become aggravated or th mente n gram shows furth r changes

Case a lb co e wa th tof a patient ac years fag whe h lacest fithe neck of the femur The I sablt I gin three ears ag I llowing a fall an e thin thip in has eirtin ed intermittently It has appeared feer as a needs The \ra h a act telth neck of th f mur whiche tr fr m th had to the intertrichinteric I ne and i anet i ivily an erow e ne of len chen Bhad gos I r to nin n led c n ers ti e tr tment b t et be a the eti le ul f tor

(A # 4 The patient was a 213 aroll w m n with a sat of the finne at the intertrochint it I e Localig I gain had been p esent in the troh eter for six cars 1 path ! gie ! fracture fal cl ight triums ten week at .) An operation wa per emel in sors The in I ed trochanter w type that at new the The case recembled a whi ha lien . f pi fle c ll s roims was m le an I amput to n we perf rm ! he exam nation of th section h wed that the contribute steet ffrom Th jutt nt wa well a ven years after the amout to n I number of cales are on rec th in whi h unnece in ami utati es were performed for ben n lone co t liagn et as sarcomata

CASE 5 The patient was a girl ? years of ag who h lace tatth upper no ith femuring ling the trochenter She wiked with I my and had omplained of p in f r seven m ath Two lays I fre h raims int the hospit lahef lantsu t in ! path I gi I f acture of the upper en ! of th femur The \ rm showed a be exist an olving both trachinters. The fracture through the area s as in g x 1 position. Anoth r roentgenogram mad a few m nth later lowel n peri teal bone for en tion Today min v re later the child is well at I w lks without a hmp

Case 6 Ihs as a ca col cast of the upper en ! of the femur in a patient 18 ye to of age Of ration as perform I for the reduction of a spontaneous fr cture in the upper en | of the femur | The patient

n s reporte l's ll seven car later (Ast 7 Th o lition in this case was an un

rec g zel lone cast in ly ng the trochanter an ! the neck of the f mur and c u ing fricture

diagnoss of spindle cell sarcoma having been made the upper end of the femur was removed with the head and a bone graft was inserted. Two years later the patient was able to walk without crutches. The X-ray showed extensive tumor formation in the upper end of the femur. If this had leen sar coma operation would have been futile. Therefore an exploration should have been done to determine its character. If the tumor had been a bone cyst the fracture would have insured healing in the best position. A chondroms myoma or gant e. Il tumor should be removed with the electric cauties.

CASE 8 This was a case of giant cell tumor in volving the upper end of the femur The head neck trochanter and upper third of the shaft were resected and the upper end of the fibula transplanted to the defect A satisfactory result was obtained

CASE 9 In this case a chondroma of the upper end of the femury as excited. The 's ray showed a central shado in the neck of the femur

Rudo i S Reich M D

Farr C E. Support e Arthritis of the knee

The author reports three cases of acute suppura to earthrist of the here. The patients were grits 5 6 and to vears of age. Operation followed by the cases the here conditioned by the cases the here conditioned by penetration from a thout I no no case adjuvent osterowitis developed an is subsequently involved the joint by Terforation. Ros art V Fix T M D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Iyle II H M The T atm nt of D sabilit s of the Hand i S g 9 3 1 8 6

The author calls attention t the import nee of the physiological balance i the hand and the for mation of the t o a ches th carpal and m tacarpal. The mot important light the thumb The lossal phalans of the thumb possesses mann of the functional and devel put all character ties of the phalanges especi lit is feedom of motion. The phalanges especi lit is feedom of motion The inlance of the thumb is almot at a ght angle to the other fingers. In planting it hould be borner in mind that holving the thumb in the same post toon as the figers causes fatigue. The cre see f the palm and fig is have the different fine of motion. The formation is new stress lines at cight angles may mile it is serious functional han him.

If it is nec saary to incice tendon sheath the sling through which the tind in glides hould be and I the chief sequelæt injury are loss of substace ski contractures painful stumps joint stiffnes adherent tendons [100 finet onal position lrop winst flath nil claw hin i lo of grasping

power and 1 cham e paral st

Operative tendon reconstruction should not be undertaken until joint stiffness has been overcome

The flat hand is treated by the use of a Gold thwait strap or by manipulation under anasthesia and strapping until the relaxation of the ligaments is opercome

Fractures of the metacarpals should be treately traction with flevion of the metacarpophalingeal joints to prevent the development of claw hand. The latter is evere disability. When it develops it may be treated by Sitles operation in which the flev or sublimus is used as an extensor of the interphalan real joint.

In adduction deformity of the thumb Baldwin soperation arthrodesis at the basal thumb joint in the proper position is used. In cases of thenar parally sis the Steindler operation may be employed. The costs its mising a portion of the long factor satured to the posterior surface of the basal phalanx to act as an adductor.

The author's summary of the treatment of contractures of the metacarpophalangeal and other joints of the han I and virist vith splints and casts is very complete. This requires painstaking care patience perse erance and time

The end results of mobilization under anosthesia are disappointing Therefore the method has been very little employed since the war

In regard to the treatment of painful stumps the author lays emphasis on the inflammators it sue sur rounding contractures. In many cases local operative interference is orse than u cless. If it is impossible to amputate through healthy tissue it is better to leave the fingers alone until the pain disappears.

In the treatment of the mutilated thumb the author resorts to the use of abdominal flaps and two types of bone transplantation that of Nicola done in the author transplantation and that of Huguier which const to finger substitution

ROBERT V FL STEX M D

Hesse E Fre Transplantation of Half a Joint to
Rest re Mobility (b e T n pl t t e
h lbe (l ke k M bl t) i h dl d
R Ch P f J-G !! h l t g ad 923

The author has prevously reported fourteen cases of mob lization of the figer 11 unts In this article he reports eighteen more One especially interesting a ce was that of a labour 34 vears of age who must even verse age suitained a sublustation of the central control of the substance of the thumb which was followed by an experiment of the central time. The thumb was in the paim of the final tant ton. The thumb was in the paim of the final tant time and the central substantian of the index fing rat the meta carpophalangeal joint in 15 deg ees of hyperes the central time of the case of the previous final time of the control of the case

I two strg ope ation was perfo med. The first stage con-stell in open reduction of the thumb which necessitated resection of the metacarnal head. The after treatment consisted in massage and movement Healing occurred without reaction

Two months later the index finger as mobilized and a plastic operation was done on the e tensor tendon The tendon vas found thickened and ad herent to the phalangeal joint Subcutaneous scar tissue was removed and the joint opene ! Reposition was found imposs ble even after severance of the lateral I caments. The metacarnal head was sawed off wrapped in a sterile dressing and placed aside A r cm section of the metacarnal diaphysis was then temo ed without saving the periosteum and the metacarpal head sutured to the shortened d aphysis with fiv or six sutures through the periosteum After this reposition as effected easily and the joint assumed its normal aspect. The capsule and I gaments ere sutured Heal ng occurred without reaction. Massage and movement were begun early One month after the second operation the result remained sati factory. The hand was of normal shape but movement v as somewhat restricted. The patient has been able to resume his work

HESS (Z) La alle C R The Treatment of Tuberculous Osteo Arthritis of the knee with the Use of

Grafts (L t t m nt des o téo-a thr tes tubercu du g n o r l meth de de greffes) Rev d thou 0 1

Abundant oxygenation and total lack of oxygen are unfavorable to tuberculosis The poor circulat on in the eniphyses favors localiz tion of the tubercle bacillus but the rich circulation 1 the daphyses destroys it Tuberculous afection when once es tablished is fa oled also by anemia due to oc clust n of the capillaries and destruction of the arteriole Ramfying osteitis develops and fun gosities penetrate the articular cartilage and the s no ial membrane tuberculous arthritis resulting The synovium which is richly supplied with blood is unfa orable to tuberculosis

The autho s operative technique for the tuber culous L ee is as follows

After fifte n days of est in extens on an Esmarch band is applied to the thigh and to lateral in cisions from 8 to o cm long are made two finge breadths d t nt from th patella. The incis ons are made through the skin and subcutaneous tissue except at the ends where the muscles are separated and the periosteum of the tibial and femoral diaph yses a finger breadth from the conjugal cartilage is incised in the shap of a cross. A tunnel is then bored obliquely to and the piph six across the conjugal ca tilage just t the articular cartilage While the gr ft is being removed from the oppos te tibia with a chisel bleeding a controlled by means of a gauze pa k Two large grafts from o to 15 cm long for lateral prop one for each side of the knee are lifted up A small graft 1 1 se ted in e ch of four hol s bored in the piphysis so that the end will make close cont ct with the end of the late al

props which extend from the tibial to the femoral diaphysis and are fastened in the subcutaneous tiss e with cateut stitches

After the operation extension and counterexten sion are maintained during the month required for solidification of the graft. After two months the patient is gotten up with a simple dressing and slight mobilization of the knee is allowed. For the next few months he walks with the aid of an appara tus No special treatment is given. By the end of five or s x months the graft has grown to the size of a small rib and ha become firmly fused Pain in the knee on palpation has ceased. The subcutaneous bone props are removed. After from ten to twelve days massage and manipulation of the knee are begun

The author attributes the success of his technique to (1) the use of osteoperiosteal autoge ous grafts (2) rigorous asepsis (3) careful p epirat on of the graft bed (4) rapid transfer of the g aft to its new bed (5) implantation just to the spongy tis ue of the bone (6) absence of contact with a f reign body (7) d splacement of the periosteum of the host bone which helps to envelop the graft and (8) careful immobilization of the region op rated unon

The graft cons is of per osteum cortical bone and spongy tissue. It is best removed with the chisel because when bone is wed the bone du t blocks the haversian canal a d p events the e trance of the capillaries Grafts , ithout perio teum do not survive longer than two months. To important stages are vascularization a d individualiza tion which prevents it persion of the newly formed elements The resi tant external perioste I lay r protects against the latter and the deep layer p r mits easy penetration by the ne bone The subcutaneous tissue with its rich blood upply favors the growth of granulation to sue. The healthier and mo e solid the subcutaneous gr ft the more active will be the intr-osseous segment

The function of the graft s () to fav r through the haversi n canals rap d and abu d nt penetr tion by the capillaries thus ctivat g the rienal supply and diminishing enous stass (2) to pro voke a conden g osteitis and thus stimulate ossification and (3) to f rm by ts peno teum thick solid encas g she th hi h is continuous th the p to teum of the t o at the extrem te diaphy ses

In all of the author's to nty case of tub reulous knee joints and in his o e se of co lgia th placing of the graft was follo ed by m Led mpro ement in the gene al c ndition ret n of the appet te normal colo of the mucous membr nes nd dis app arance of the jau dice and cachena L vall attributes the impro ement to the rap d r est b lishment of an active inc used art il circulation with diminution of the piphyseal ve ous stais which is unfavo able to tuberculos s. In non- of the knee joint c ses has there be n any local or remote re ction or any dissem tion of the dieas

infiltrates the subcutaneous tis uses about the knee. In the advanced cases in which there was a difference between the symmetrical prominences of the femurand tibia at the time of operation the showed no accentuation even after fit evers. During the actively acute stage operation is contra indicated.

FRACTURES AND DISLOCATIONS

WALTER C BURKET M D

Grimault L The Fnd Re ults of Osteo ynthesis in Complicated Fractures (L téos nthè d s les fra t es compl quées é ult t el 1g é) 1 h

f n o blg d ch 10 4 x 1 0

The max mum period of ob ervition in the cases reported was three years. From h, experience in the e cases and from the experience he gain d luring the war the author dris the following con

clusions

1 Every complicated fractur 1 inte t 1 sufficiently to permit compl to prim ry sutu e 1 amenabl to treatment by osteos rithes; if this is

necessary

2 If drainage or incomplete suture is indicated because of doubt regarding the surgical di infection deliyed osteosynthesis may be done after from eight to fifteen days

3 In infected fractures o teosynthesis should be done only when reduction is impossible by other methods

4 When there is a choice of methods metallic friction and periosteral detachment should be restricted to the minimum. When the fracture has consolidated it is not necessary to remove the metal unless a fistula develops or there i redness of the skin or sharp pain on pressure.

5 When a complicated fracture treate! Is exci ion o teosynthesis and pinmari suture becomes healed b primary intention without any local in flammatory reaction its cours is that of a clo-edfracture treated by openymbers.

6 Wh in there is local infection after a complicated fricture treated by 0 teosynthesis has become consolidated trarefaction of the bone around the wires is tare and when it occurs will not di turb consolidation.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Nu cini C A Clini al and Anatomic Patho logical C nribution to the Study of Traumatic Lesi ns of the Middle Meningeril Artery (Control to the Control of the

The author reports in detail three cases of fractured skull In one an operation f r the removal of a blood clot was follo ed by recovery in the two others death occurred soon after the injury He reports the symptom the physical signs the operative procedure and the autops; fi ding in the two fatal cases. Chiqualt reported that in 117 cases of cerebral hamorth ge the bleeding wa due to a les on of the middle men ageal artery in sevents two an injury of the venous sinu in thirts lesions of the subarachnoid ve sels in fou teen and les ons of the ve sels of the diplo in fi e Treves states th t 85 per cent of intracranial hemorih ges are due to lesions of the middle meningeal artery and 15 per cent to injuries of the enous s us I sene in a study of seventy five cases found that the majority of the hemorrhages were from the middle men ageal artery and that o ly rarely d d the bleed ing come from the sinu es the vessel of the I is the internal jugular or the vessels of the d ploe

In This middle in injectal arters has a long ours and a large lumen of its to a terminal b anches the anterior hich is large rand longe tenor upple site anterior and a perior port on of the dura while the posterior branch running along the squarmous port on of the the squarmous port on of the bout three quarters of it course the arters has in a sulcu made by the two veras comites \(^1\) course the arters has in a sulcu made by the two veras comites \(^1\) course the arters has in a sulcu made by the contraction of its course the arters has in a sulcu made by the contraction of the arter and the position and the contraction of the arter and the position are also as a succession of the contraction of the arter and the position and the arter are also between the arter and the arter are also as a succession of the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and the arter are also as a succession and are also as a succession a

their size a d the f agility of their Inju v to the meningeal artery foll w d by hæmor thage may o ur ithout facture f the skull In trac a sal hæmorrhages are 1th r extr o intr dural In ra e instances bleeding may occur in the ce bral ubsta ce p oper or within the ven tradural hæmo hage may be diffu e tricles Th ext nding ov rth tempor; r talo occlital area Such hæmorrh ges constit to ab t 8 pe ent of intracrant I hem rrh geso curring in dult Extr dural lesions are rare in childr n b cause in the young the dura mater does not sepa ate easily from the bone a d c nsequently blood cannot ea ly coll ct betwe thes to tructure In the 1 lt sep r t n f th d r fr m the bony ault may result from trauma In caser porte !! y Kroenlein there was extensive separation of the lu a from the bone from the region of the transverse smus to the occup tail framen and this produced compress on not only of the occupital lobe but also of the cere belium. The congult informed has the characteristics of the ordinary blood clot. According to Cerard Marchand clots usually measure from 8 to 10 cm in length from 8 to 9 cm in width and from 6 to 7 cm in thickness.

The multile meanuscal arters may rupture in that part it ming through the smull for men or in that in the osseous can! Rupture may occur also in any one of its ferminal branches the anterior median or posterior but this is I so frequent. Usu sully their jury to the vest do occurs on the idea subjected to trauma. The extent of the harm form axines with the serift and site! If the injury a of the use of the vessel traumait of II death does not supervise and the clot in olto oblige about the contraction of the contraction o

uppurate In d cuss ng the symptoms of cerebral hæm r thage it a necessary t d t ngui h the cerebral from the bulbar symptoms The severity of the mani festat ons varies according to the size a diposition of the hæmatoma If the hæmorrhage is e t adural the symptoms ary cc rd ng to the rapid to with which the bleeding occurs an I frequently d velop a few hours o a few da s fte the traum H tch son maint ned that the inc de ce of a clear interval bets een the t me of the tijurs and the onset of the symptom p o ed conclu ively the p esence of an extr dur I hamo rhage to the xcl o of all others In cases of sadd n solent injury ho ev r the le r period m v be obscured by a concomitant m m festati n of c neuss on e c tation a d temporary shock Frequently a blo cau es a sud ien fall in the blood pressure which tempor rily decrea es the flow of blood but as oon as the pressure begin to

se the hæmorrhage increases. In the typic 1 c sc short lea inter 1p ecedes the o set of symptoms —lo of c n cousness 1 bored esp at o a d

fi dp pals
Raymond recommends examination of the cove
fundus in all c sold subful erebral harmornhage
Frequently ha manopsia abs n e of fundy in
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al my last a f w hours or in the rare cases a day or to provided the blood flo is vers slight and the brain becomes occustomed to the gradual increa en prise us. Velex-period as note in majority of the case reported in the literatur and na almost ill there ere motor di turban. A number of cise pesente la typical picksonian sundrome and in a fee there ere pischich di turb ances and mental torpor. In the latter the lesson molycely the frontal lobe. In a number of cases the

injury was followed by paral si with aphi ia It is not alvays easy to differentiate between hamorrhage and contu ion as the symptoms may be pract cally the ame Cerebral pressure may be produced by a depres d bone fragment without bemorrhage In this type of ca e both local and general s mptoms de elop immediately following the trauma there no clear interval According to Gerard March nd hem pl g a due to intracranial hamorrhag i total whereas that due to cerebral contusion partial and transient \uncrede main tai ed that the di gnosi of hæmorrhige i certain if the pupil on the side inju d ho s dilatation but according to the author this is f inh relati e v lue as it m y occur in cases of ord nary contusion no s mptom and In Mucc ni s opinion ther signs definit 1 pathognom nic of the conditions and it i sometim impo s ble to differenti te be ty een hæmorrhage ontusion and bony pressure Ho eve in about so; er cent of the as ad ag osi c n be b sed on the abs nee r presence of clear interval the pr s nce of motor di turbances on the side opposite the lesion and the pie ince of I bored re piration unilat ral pupillary dilatation and a slow pulse. In cases of subju at hæmorrhage koenigs sign i of distinct and in the differential liagno :

Them tahts in c of erebral pe uter due to hamor hag i bout 80 jr cnt. The Inger the compe i n l t the moe unfa or ble the prog nos. The prent geo fir c eries in cases of hern trihag trat d urga all i distinctly higher than in the nitra at d intradur le tras sation is al axis c ou though the patient recovers there remain u b diturn.

I psy n i poss bly a p v hosi Sev al m thod h e been r commended for the posu e of the middle meningeal art ry. The mo t fa ored 1 that of Jack o h t cphines 2 cm behind and 12 mm abov the zvg matic process of vault about 3 cm b hind the z g matic pr cess logt and liuet rre mm nd t ephin gat the point of i terrection of a line dra n h iz nt ll 4 cm bove the zygomat c arch a d nother d awn er t cally behind the front I pr cess of the gygom Poiner draws a perpend cular the cm long n the m ddle of the zygomati ar h and trephines at the end i it The e methods at applicable in ca es of hæmatoma of the temporopari tal and temporofrontal region-hæmatom result g from) ro of the anterior branch of the middle m min

geal When the bleeding cannot be controlled pack i g ith iodoform gauze is neces ary Junes V Ricci M D

Rational Methods of Overat

Moskalenko W W Rational Methods of Operating on the Blood Vessels Based on the Anatom ical F ndings (Rat nelle f nat m h n h n g b begruendete Oper t f h en an l n (f eo) l erhi dl d R ss Clir K g l trogr d 19 3

Operations on the Ilood vessels may be divided into two classes (1) procedures to approach this cell and (2) operations upon the vessels. The typical operations are lightlen suture diplacement. The last is still under investigation its results are si inconstant as those of the typical operative approaches because of the variation in the location and structure of the vascular trunks.

The variati n in location is shown in the following example

I In dolichocephalics the number foramen oc

cup es a more lateral position at the base of the skull and the bulb of the superior jugular vein les deeper than in brach cephalics 2 In the narrow che t the pulmonary artery

almost covered by the sternum while in the vide chest it has further to the left

3 In cases of a narrow flat thoracic opening the bifurcation of the aorta i very high but if the opening is symmetrical the bifurcation is low In the structure of the vessel certain pecularities

have been noted. In the vessels themselves there arfield which are richly vascular and others in a high vessel are absent (0 trogorsky). The call let of the vessel very unconstant that of the deep femoral artery but occasionally much less. The angle and artery but occasionally much less. The angle and artery but occasionally much less. The angle and artery but occasionally much less. The angle and artery but occasionally much less the angle and artery but occasionally much less than the artery of variable. The deep femoral artery sometimes of under immediately below. Pougart's itemselves.

From these facts it, exident that in approaching and operatine upon the blood ves elsa Ano ledge of hir structure and position is most important forments is bulbus operation gives a wide operative field but is very traum tic. When Pull's technique is used the approach to the bulb of the jugular ven i very narrow and the danger of injuring the carvoid in very narrow and the danger of injuring the carvoid in the public of the pupiling of the pu

When the thorax is wide the pulmonary arters c n be easily exposed for the removal of a thrombus b Trendelenburg's incl...on along the border of the sternum. When the thorax is narro the route proposed by Yedzigallona (r ection of the sternum) is necessari.

C nd tions for healing following suture are much mor favorable in a vascular zone than in a zone in which vasa vasorum are almo thor entirely absent Reconstruction of the femoral attery by means by a collateral artery according to the Dobrowolk sign Aramarenko method can be succe s'ul only when the collateral path is sufficiently large in other cases better results are obtained by a mod finction of the collateral path is sufficiently large. In other cases better results are obtained by a mod finction and an interval of the control of the control of the control of the collateral path is a significant to the control of the collateral path is a significant of the control artery beneath the site of injury turned it up and after beneath the site of injury turned it up and after beneath the site of injury turned it up and the control of the collateral path is a site of the collateral path in the collateral path is site of injury turned it up and the collateral path in the collateral path in the collateral path in the collateral path is site of injury turned it up and the collateral path in the collateral path in the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in the collateral path is site of the collateral path in th

In a rational operation on the blood vessels the mets on must be made in the zone of the vasa vasorum the difference in the caliber and the angle of branching of the vessels must be borne in mind

and the method used must be based on the structure of the vessels in the particular case

The author has discovered a relationship between the structure of the abdominal aorta the form of the inferior thoracte foramen and the length of the effich in If it is possible that in the future the structure of the vessels of the extremities may be determined from a sight extremal feature such for example as the length of the twelfith in art I that has will become the has s for the CM Witches (2).

BLOOD TRANSFUSION

Stewart G N Hæmorrh ge S g Gy Ob t 9 4 XX 1 352

M derate hemorrh ge is followed by a compensory vasconstriction an increase in the respiratory moy ments and an increase in the heart beat which aid the venous return to the heart and tend to maintain the normal blood pre sure. When the loss of blood r aches a certain point the compensatory mechanism no longer maintains the filling of the heart and the quantity of blood ejected if m the

sentincles of min hes
In acute harmorrhage the factor of chief importance is the loss of ery throcytes which interferes with
the transportation of o ygen and the gaseous exchange in the tuss es. As there is appa entily o
oxygen reserve in the ti sues any interfer nee with
the trinsp it at on of this important element results

in definite changes which have a striking effect on

the nervous ce ters.

The ments of gum acacia are still subject to controversy. While this solut on may ma nian the vatery c nistruents of the blood through its colle dal bull, and thereby cause an increase in the blood pressure it does so by making the blood flow one eslowly through their sizes. An increase in the blood pressure allower annot be considered of great advantage.

Further knowledge of the tissue changes associated with hamorrhage would be of g eat value in efforts to a d the organism to return to normal

WILLIAM J PICKETT M D

Sciultz W. The Pathogenesis and Teatm nt of the Haemorth gle Diatheses (Pathogenese und Ther p d rt hemorthag then D these) Sommit if 48h dl d G b d l da g Siff we his R o kh 1923 n 5

Of the hamorrhage duatheses (hæmophilia pur pura hæmorrhagica of We lhof essential athrom bopenne purpura and avitami osis known as scurry a d Noell' i Barlow disease) the first two receive their consideration since the cause of the others—

injury of the blood ve sels—is apparent
After a brief descript on of the technique of clinical
exam nation the author calls attention to the differ

ence disco ered by Hayem bets een coagulat n and hæmostasis the relationship between these is only slight a fact that is often forgotten. In this con nection Schultz d cusses the Schmidt Morawitz Fuld and Spiro Nolf Klinger Bordet theories of blood coagulation. In an incised wound human blood congulates within a few minutes when the e is sufficient contact with ound tissue juice. The congulation time is considerably lengthened when venous blood is drawn off and is more prolonged when the blood is caught in a vessel coated with paraffin As a rule the proc s of coagulation begins on the surface where the blood comes into contact with the activators tissue thrombokinase and the s des of the glass receptacle The colloid chemical equilibrium f the albuminou bodies co cerned-the antecedants of thrombin and the activators-is dis turbed the fluid fibr nogen being rendered ineffec The process of coagulation is hastened by warmth and retarded by cold The p rt played by the formed elements of the blood is of little im portance Except in the c ses of hamophilia and icterus we do not know the caus s of the great in dividual and period c diffe ences in the oagulatio of the blood under conditions of health and d sease

In dealing with the physiology of hemosta a the author points out that in beamorting a from large vess is ceasation of the bleed gg; essential froggulation and thrombosis. It is importance also in hamorrhages from the capillaries. In the hemorrhage daithees the actif is sixten should be studied. The importance of the condition of the blood vessels in altrombogene purpura h s been generally acknowled essel is the caus of hemorrhage in thrombogene purpura also a demonstrating in the monophism of the blood platelets has not been p ved. The chief factor in hemophilis is the condition of the blood platelets has not been p ved. The chief factor in hemophilis is the condition of the saccular system.

Peculiarities in coagulation are f importance only executionally There is no org n whose exclusion

causes any cha ge in coagulati no ro bleeding time only the regard to the liver the author states that only the most severe injury comb ned 1 th other toric influences enters into the et ology of harmor rhagic conditions. General sta is of bile does not in general lead to retardation of coagulation or hemorrhagic diathesis but if in addition to injury

of the parenchyma of the liver there are other factors numous to the vesse's such as caranoma lues tuberculosis or toric infection the combina into fitness mai lead to harmorthage. The ludneys and ovaries have no influence. The influence of the splice in stoph. Removal or arrest of function of the adrenals is unfavorable to the further course of purpura. The author has not found that Ba edow dysfunction! followed by an appreciable change in the coagulation time of venous blood.

In the treatment narrottes are of value only because they prevent disturbing refleves from the central nervous system. Venesection has a hermostatic effect by causing a sudden detrease in the total amount of blood therefore even in hermophila the opening of a ven is justified. Drugs are in general of little value. Calcium has no influence on the congulability of the blood gelatine though much used has in general only a local effect of the confinement on the harmorthage dutheses. Adendid in militario, and the confinement on the harmorthage dutheses. Adendid in and ergot are not without danger as they may in crease the harmorthage to their point action.

Biological substances employed in the form of serum to hasten coagulation are generally ineffective Fresh serum has a slight influence in bastening coagulation when it is injected intravenously (1 c cm) and subcutaneously (30 c cm) Serum more than fourteen days old has nearly always a distinct and sometimes an extrao dinary inhibitors power on coagulation. This is part cularly true of diphtheria serum as it is obtained from the drug store The same statements apply to whole and defibrinated blood. Gressot s rabbit serum had no effect in a case of hamophila. The activators of thrombin formation have a very marked effect in hastening coagulat on outside of the blood vessel for example when expressed to sue ouice is employed However the possibility of it use i limited to local application When it as employed intra enously in animal experiments it caused death or a decrease in the coagulability of its blood Schloessmann uses the juice of the thy rold locally

As a rule prophylactic irradiation of the spleen with the roentgen ra s does not cause any decided reduction in the blood lost but in a few cases of hamophila it has been succe sful STARL (Z)

LYMPH VESSELS AND GLANDS

hoch J and Baumfa ten W. The Fe Imental Production of Tube culor of the Carlotal Glands Thr ugh Oral and Conjunct 1 in I ction and its Ret it in to D scase of Other Org n Particula by the Lungs (De pe matil Lir ugung) I lill inpludes to be k lose du ch 1 u d nj net i I f ki n u d hr B i n hg u d E k lug a dr b g Org sbee dired L g n) Zi k f Blyg I f lill k 1 k 3 nj z k f Blyg I f lill k 1 k 3 nj z k f Blyg I f lill k 1 k 3 nj z k f Blyg I f lill k 1 nj z k f lill k 1

The question as to the route of infection in tuber culosis particularly tuberculosis of the lungs has

not been satisfactorily explained. It is obvious that a solution of the problem is not afforded by Fluerge's droplets at least if their inhalation is to account for the immediate infection of the deeper regions of the lungs the finer ramifications and the alveolin. This would be a physical impossibility as the suspended droplets would be caught in the most nucrous membrane of the upper air passages and at the same time the rapidly weakened air current would not keep them long in sufficient motion.

Experiments such as those of Cornet v th drv in fectious material and of others v th artificially pul venzed infectious material are supposed to demon strate that drv dust or dusty fluid will reach the alveoli but in the large amount of material used and the volence of its incorporation they present conditions so different from the usual conditions that the evidence they offer is probably of slight value

In Behring as umed that the infection enters by way of the mouth and pharyngeal structures

chiefly in milk containing the bacille

The authors call attention to the fact that Koch and Moeller succeeded in obtaining in rabbits by means of oral infection an isolated chronic disease limited chiefly to the upper lobes of the lungs and resembling pulmonary tuberculosis in man They infected the greater number of the experimental animals by mouth and then endeavored to deter mine how frequently such a di ease could be obtained by feeding and what path is taken by the infection By resorting to the simple experiment of dropping an emulsion of the bacilli into the mouth they were able to produce in these animal the typical disease picture of tuberculosis of the cer vical glands and lungs The disease in the glands resembled scrofula in man. Some of the bacilli introduced into the mouth and pharting were taken up by the mucous membrane of the upper alimentary canal resorption occurred by way of the lymph paths the bacteria being carried in the lymph stream to the cervical duct then into the blood stream and then to the right heart and the lungs. They were unable to reach the trachcobronchial glands (bilus) directly from the cervical glands as between these two groups there is no communication. The authors belie e that the origin of human scrofula is similar to that of the experimental cervical tuberculosis in guinea pigs and rabl its and that pulmonary tu bercul sis is a secondary development

The same petture of tuberculous of the cervenal glands with secondary tuberculous of the lungs as found when the infection occurs from the conjunct to a fit eye; Calmette called attention to the importance of this portal of entry. According to Work the collected lymph of the head flows through the bumph a sessie of the neck into the superior vena conditions, the bumph a sessie of the neck into the superior vena conditions, the bumph a sessie of the neck into the superior vena conditions, then head to be superior the bumph as seen to be superior to the conditions the neck in the superior to the superior to the superior to the superior to the superior to the superior to the superior to the superior to the superior to the superior to the superior constitution to the superior to the superior to the superior constitution to the superior to the superior constitution to the superior to th

glin is with ut calling gland I rill used ut the eithat have been taken up to the not the lumb the apilling fith I ngs more thought first all tube up more than a

The lurgit the egent with hit trail earliest acts a themselve her rither prit of either acts a themselve her rither prit and her junit a limit to have no lusted ferme tracted that an iselitely judin a tuber ulcoma occur without inferit the glit me the er feater without inferit her glit me the er feater than the er f

When F. J. A Case of Lympl ogranulomatod.
Maligna. Hodglin's Disease with Recurr nt
Purpi ra and Hamorrhagic Symptom. Mio
R. mark on Lymph granul in tail Maligna
J. A. See H. J. J. J. J. Ch. Not.

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theoryms in 1th stalls we action as in the assist expent the house and its run and the best feet in the run and the stall of the stall

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Simmers D. The Clinial Significance of the hath logial Changes in Hodgkin. Disease tm J.M. 10 x 1 57 315

If bight is decase in that long of intity. The changes in the higher least given on a time that appear and for more pring sanall in others of lymph extens with in its least and imiting the given in the sand with our and intitude for our hill.

Ir m the nath. A rest, or the cases are to be not two crows. The first pro-linella by the int two crows. The first pro-linella by the interest properties to the the limphot it uses that it as at the birght nodes in part right it my hould leden in the intent to the problem of the interest properties in the part of the land other resistant for in the ling to non-marrow a menult runs each of the cases to sewed ten (a per controlledge).

fig. 1 std. I lim; it note the tendangement of the saulity molecules seen dury to mixed the thoract of the figure

ck axilla and gron and by the auxiliary lym
th t sy tem t cluding the piern and I er and
oth r residual lymthoid collections in various parts

of the body The lymphoid follicles which lie in the submucosa of the gastro intestinal respiratory and unnary tracts practically always escape. From this it is apparent that the provocative agent in Hodg kin s disease has a selective action on certain groups of lymphoid tissues This peculiarity it shares with chronic lymphatic leul.mmia

Hodgkin's di ease may be revealed most prom mently in organs other than lymph nodes largement of the spleen the thymus or the liver may be the predominant feature the associated lymph node enlargements being of secondars im portance. The condit on may be divided clinically and anatomically into five types as follows

1 Hodgkin s disease of the regional lymph nodes (a) involvement of the abdominal nodes predomi nant (25 per cent) (b) involvement of the abdominal and thoracic nodes predominant (43 per cent) (c) involvement of the nodes of the neck predominant

(7 per cent)

2 Involvement of the thymus predominant 3 Involvement of the spleen predominant

4 Involvement of the liver predominant (A) Axillary involvement (sequential to cer

vical or thoracic lymph node enlargement) (B) Inguinal involvement (sequential to abdominal lymph node enlargement)

The author emphasizes the fact that in Hodgkin s disease the skeletal muscles may be extens; ely destroyed by tissue of the same sort as that in the

lymph nodes

The bone marrow in Hodgkin's disease may show hyperplastic changes particularly in the eosino philes and cosmophilic my clocytes or may be re placed even extensively by tissue identical in com position with that of the diseased Is mph nodes

Evidence is presented which tend to show that in the reactions in the lymph nodes and in the bone marrow there is a certain parallelism between Hodgkin's disease and chronic myelogenous leu Lamia This suggests that the two diseases are fundamentally related and that they probably repre sent different quantitative responses to the same type of provocative agent

It remains to be determined whether Hodgkin's d sease is an inflammatory of a neoplastic process The fact that the histological composite tends to muntain its individuality throughout all changes of environment appears to constitute an argument

in favor of its inflammatory nature

One of the cases reviewed presented a new phase in the pathology of Hodekin's disease characterized by massive enlargement of the liver due to structural changes in the walls of the portal vessels which were strictly comparable to the changes encountered in the lymph nodes including the characteristic cell composite and the overgrowth of connective tissue Similar changes were present in the walls of the larger veins of the spleen and the medulla of the suprarenal cansule

Hodglin's disease is an affection of the hamoly topoietic apparatus. Its histogenesis is determined by (1) preliminary hyperplasia of lymphoid cells in various parts of the body and (2) the discharge of mononuclear and multinuclear giant cells from the bone marrow with or without cosmophiles and eosinophilic myelocytes and their arrest by the hyperplastic lymphoid depots in pursuit of their function as filters The fibroblastic reaction in the recipient tissues represents a mechanical process designed to support the excess of cells by which they are burdened MORRIS II KAIIN M.D.

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Holzknecht G: The Safety Value of Direct Meas urement of the Surface Dorsage in Roentgeno tlerapy (De Schrint 1 rd ken Messu gd r Ob flacchendos s i der roe tgentherap) Hu ken med Wch h ps is 131

The author emphasizes the importance of measuring the total amount of the riys used from the beginning to the end of the irradiation. As the usual dosage employ off may ge e use to injury because of alterations in the algorithm of the distance see the recommends for doshle protection the aimpliancous statution of one of the dosineries on Rever (6) as the control of the distance see the recommendation of the dosineries on Rever (6).

Dodds F. G. and Webster J. H. D. The Metabolic Change Associated with N. Ray and Radium Treatment L. J. 624 N. (1)

The investigation reported in the article was prompted by the recent hy pothesis of Andersen and Aobilmann that roeatigen sickness is like an acute uramia. It was made on cases from four clinical groups (1) cases of leukamia (2) cases of exoph thalmic gotter (3) breast cases gir en postoperative radiation and (4) malgeancy in vanous parts of the bot yet rated to by treat it on.

Cases in (aroup 1 ere treated with radium to the enlarged spliene with or without roenigen irr dation of the long bones or enlarged glands. Those in Group a were treated with roenigen radiation to the thys of (and thy mus in some instances). In a few of Croup 2 cases and in all of Croup 4 cases the roenigen ray was a length was shorter therefore a contract of the

All of the patents of the series ere in bed and manatamed on a constant det. The urner was collected in twenty four hour specimens and these were completely analyzed. It cases were examined for at least a week before treatment was begun in didler to fix the normal levels of the urnry, constituent. Specimens were analyzed as long as the patent remarked in the first patent remarked in the fixed in each pecunion introgen ammonia coefficient phosphates chlorides rectain e and dustages were determined.

Mer a careful renew of the results it is shought but to class by the observations according to the site of irradiation. These fell under four head ags (t) abdominal irradiation. (2) cervical irradiation (3) thoracic irradiation and (4) Irradiation of any other part of the body.

Irrad atlon of the head thorax and limbs produced no change in the metabolism of the cases examined
Irradiation of the abdomen and spleen caused definite urmary and blood changes. There was a

sudden fall in the twenty four hour amounts of urea unc acid ammonia and titratable acidity creatinine total nitrogen and phosphates. The volume of the urine was also greatly decreased. After about three days the excretion of these substances r se to about the normal figure. In the case of unc acid and phosphates the twenty four hour amounts continued to increase after the original level had been reached but returned to normal sgain in about five days. The chloride content and diastase showed an immediate increase and returned to normal in from three to six days. The ammon a coeff c nt showed an increase for about three days and fell to normal in six days. The blood analys a showed a marked decrease in the urea content with very little change in any other of the blood constituents These findings were made in every case of the group to estigated Examination of the faces showed an immediate increase in the facal content this was almost solely in the neutral fat fraction Irradiation of the cervical region produced no change in the metabolism demonstrated by the blood and urine except an immediate fall in the

exposure the creations almost disappeared from the urine and recovery dd not take place until about the fourth day I ractically no alteration in the blood-creatinine content was found The fin lings of this study and the conclusions

excretion of urinary creatinine. On the day after

drawn from them are summarized as follows
1. Similar results were found in patients treated with roentgen or gamma rays

The changes in metafolism produced same with the site irradiated. It appears that the effects of irradiating the abdomen can be explained by a temporary inhibition of the function sof the principal and immal glands such as the liter pancress and kidneys. An support to the Anderson and control and the support of the Anderson and control of the contro

3 Three patients with very well marked roent gen ray s ckness were examined but no change in their metabolism could be detected following ex poure to the rays. The s ckness in these cases was apparently psych c

4 A considerable number of patients have been treated prophylactically with calcium chloride etc before radiation and a few with sodium bica bonste in all of these the reaction was less marked

ADOLF : HARTU G M D

Pfahler G E and Widmann B F Measurements on Two American and Two German Deep Therapy Machines by Means of the Duane Method and the Friedrich Iontoquantimeter

Am J Roenie 1 1924 11 26

This investigation was undertaken to determine (1) the relative output of the four machines (2) the relative value of the German and the American units of measurements and (3) the relative value of the two measuring instruments. However various difficulties were encountered which made the results not entirely satisfactor) Therefore the authors con cluded that giving practical clinicial observations would accomplish more than publishing a great mass of figures which are not in entire accord

The iontoquantimeter was not entirely reliable Careful investigation by a physicist and standardiza tion were necessary before dependence could be placed upon it It was found that zinc and copper used as filters had the same absorption value. The surface dose varied with the size and density of the portion of the body receiving treatment Each machine worked most efficiently under certain con ditions these are described at some length

The following conclusions are drawn

I In interpreting the dose values as used by different investigators not only the voltage the milliamperage the filter and the distance must be known but also the type of machine used if the in direct method of measurements is employed and caution must be used in interpreting the value of an unknown machine

2 The size of the field of radiation influences not only the depth dose but also the surface dose 3 If one of the direct methods of measuring is referred to its type and its accuracy must be

known Careful tests of a new instrument as it comes from the manufacturer should be made be fore it is depended upon for clinical work

ADOLP ! HARTONG M D

Desla din A U The Present Status of Radiation Therapy in Can er J La 1 924 1

The radiosens tiveness of tumors is generally greater the less the tendency of the tumor to d ffer entiate and the more marked its tendency to pro I ferate On the basis of the r relative sensitiveness tumors may be roughly graded as teratomata lymphomata carcinomata or entheliomata endotheliomata and melanomata

The effect of radiation on cancer depends largely on the dosage employed. With adequate dosage the cells in the metaphase will sho v definite degenerative changes in a few days. In cells not in the metaphase a similar but less c mplete change occurs. In certain cells a still smaller dosage m v p oduce transient or prolonge I suspens on of metabolic activity and if repeated might gradually educe the power of the tumor to grow However repeated sublethal doses tend to increase the resistance of the cells permit ting the tumor to recover its origin I power of gro th

The danger of stimulating tumor cells has been greatly exaggerated As Loeb has shown such stim ulation is temporary and is often followed by re

tardation of growth

In the action of radium and the rays on cells there is little difference. The choice of one or the other depends on the size and location of the lesion and which agent is most available. In many cases both can and should be combined Because of the rapid loss of activity of radium emanation and be cause the glass capillaries in which it is condensed allow all of the beta rays to pass into the tissues the use of emanation in bare tubes frequently produces decided necrosis For this reason the present trend in the application of radium is toward restriction of the use of emanation in favor of the more stable radium and toward the employment of higher fil tration and smaller units such as platinum or gold needles containing 2 5 or 5 mgm of radium element

In many cases surgery and radiotherapy must be combined for the best results At the Radium Institute in Brussels the surgical technique used in cases of cancer of the rectum is planned so that the use of

radium will be rendered more effective

In cases of cancer of the breast radiation is given chiefly to prevent or delay recurrence. It consists in thorough preliminary roentgenization and two or more postoperative courses of treatment. In in operable cases arrest of the disease and considerable palliation may often be effected by radiation. For cancer of the uterus with involvement limited to the fundus hysterectomy is still the method of choice radium should be reserved for cases in which wide extirpation is impossible or contra indicated. When the local treatment is surgical thorough roentgeni zation should be employed from two to four weeks before and shortly after operation. When radium is used it should be supplemented by roentgenization In cases of carcinoma of the cervix the use of radium as an alternative for surgery should be considered even in the early cases since this type of growth is readily accessible for the placing of radium and pecul arly susceptible to its effect. As the maximal effect of radium is limited to a zone about 1 5 to 2 0 cm wide its use must be supplemented by radiation with the 's rays from without the pelvis preferably short wave length \ rays generated at high voltages

In Hodgkin's d sease and lymphosarcoma system atic \ ray treatment is the best method of alleviat ing the symptoms and bringing about at least tem porary restoration of health The effect of such treat ment with regard to the prolongation of life is not

known

MISCELLANEOUS

If uer G J The Sun Cure of Surgical Tube cu lo s C c 1 J M 9 4 500

The author records his impressions of a visit to three institutions for the treatment of tuberculosis that of Rollier in Leysin Switzerland the Treloar Home for Crippled Children in Alton England and

the J N. Adam Memoral Hospital in Petrysburg N I in all of them the patient is given rest nour ishing food and fresh air the three fundamental factors in the cure of tuberculouss and shotherapy is regarded as a therapeutic and of first importance of the patient of the patient of the patient of the arred out in localities in which the climatic concarred out in localities in which the climatic concarred out in localities in which the climatic conained orthoged compared with general measures particularly heliotherapy they are of secondary imstitutions as compared with general measures particularly heliotherapy they are of secondary importance—Wattz II Notice M.

Bendes J Il Helioth rapy in the Treatment of Tuberculosis M ne is M d 1914 1 154

The technique of hel otherapy as worke I out by Rollier in 1903 is fully described. The author adheres to it closely except that he permits a longer period of rest between exposures. The details of treatment are discussed and the local and general effects described. Warris H. Naurs. M.D.

Cla k W L Morgan J D and Asnis, E J: Electroit ermic Methods in the Treatment of Neoplasm and Other Lesions with Clinical and Histological Ob ervations Raid of 1914 1913 The authors describe to types of tissue change

caused by the application of the high frequency cur rent namely desiccation and tissue coagulation Desiccation or dehydration of the tissues is produced by the Oudin current of high voltage and low

duced by the Oudin current of high voltage and low amperage v hile coagulation is brought about by the d Ar onval current which is just the reverse The desication current is of value when the lexus is well localized and when a good consume travit is important. It is useful for the treatment of a num ber of beingin lessons. Electrocarvals on which is much more destructive is employed for the large rewish. For the active electrode a large needle or growths. For the active electrode a large needle or growths. For the active electrode a large needle or lessons of the needle into the growth to the proper depth causes the heat to be carried to the deeper attractures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and is supernor to the use of the structures as desired and the use of

The electrotherms method destroy, only the discased tissues and unlike radiation does not lower the resistance of the surrounding tissues. Follow ing electrocogulation there are no shrows changes in the surrounding tissues. Devitalized tissue is removed by ext non or curettage. Large blood vessels entering the field are ligated preliminary to reatment. The indication for electrotherms treat reatment. The indication for electrotherms treat or the \(\text{1} \) vary will depend upon the type of growth and the presches or absence of metasiasis.

Microscopic examination of oricinoma suspense of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the motion of the motion of the motion of the motion of the collection
The article contains a number of photographs of clinical cases and the tissue changes

WILLIAM J PICKETT M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Butt D C A Malignant Neopl sms Colloidal and Flectrical Phenomena Med J R 924 c 196

Tumor cell possess a high potential probably because of the presence of an excess of positive charges or ions Therefore marked imp ovement often occurs: a cases treated with the electro The latter probably neutralize the excess positive ions and readjust the tumor cells to normal metabolism SAURIE KAIN MD

Wyeth G A End thermy in Neoplastic Diseases in S g 924 l 1 9

Endothermy monopolar and bipolar is the local ized production of heat by the resistance of the it sues to the many oscillations of a high i equency current. The sharp jointed active electrode is applied cold. The depth of penetration varies with the amount and duration of the current.

The author believes th t endothermy accomplines local healing more quickly and surely than viay or rad um therap and is priferable to surgery mihait it destro sithem I ganacy b fore temoving it thus a ding thed nger of mechanical dissemination

En lothermy 1 most useful for the t eatment of accessible malignance and prec neer us lesions. Its act on is teneticial also in tuber losis of the skin and mucous membrane Old chronic ulce ated syphilit c lesions and condyl mat often yield to it Endothe my dest ovs to sue and is just as effect e gainst the squamous c il as against the slowly go ung bas I cell type of ance Hecause of the great danger of metastasis of the squamous cell type treatment is not compl to until thorough radiation has ben giv n the lymph draining area A le son on the lip is removed in one sitting but the glan is of the neck may requer peated radiation Endothermy 1 appl able to Il lesions of the surface of the body ac saidle cavities (such as the nose uch as the and mouth) and hollo viscer bladder that may bot elby operation heated and cl ed at once Alson of the bl dder may te removed under diect i on by monopol r endoth rms Monopolar endothermy o desice tion d used by

Cl rk. I Ph ladelphis is distinct from fulguration high frequency caustrization and coagulation. Fulguration produces his personal but does not destroy light frequency caus station acts like ordinary causterization except that it effect is deeper. Desercats in destralizes by drying the park i not sufficient to carbon ze but c u es rapid dehydration of the tissues and lacts as 1 of the ozo og blood.

In the treatment of superficial localized growths monopolar endothermy with local novocaine anæs thesia is used. The current of high voltage and low amperage from an Oudin resonator of a high fre quency machine produces just enough heat to de hydrate locally \(\) sewing needle held in a suitable handle is used. The needle only touches or lightly penetrates the lesion Practically no scar and only a slight secondary inflammation result endothermy is especially valuable for lesions about the face neck and hand for warts moles pigmen ted nævi papillomata keratoses leukoplakia vernal catarrh varico e ulcers chronic indolent ulcers and keratoses due to the \ ray or radium Tuberculosi cutis tuberculosis verrucosa cutis and tuberculous ulcer should be destroyed by one treatment of Disseminated miliary monopolar endothermy lupus vulgaris and lupus erythematosus which are more diffuse require a number of treatments. A single area i destroyed at a time until the entire lesion is treated. The epidermis is dehydrated and peels off at once at the time of the treatment Further penetration of heat into the corium and subcutaneous to sue is then produced by lightly touching the tissue with the needle. Shortly after ward there is an outpouring of serum with crust formation

Bipolar endothermy for the removal of deep mahemany, requires a more powerful current and complete anexthesia. Ethere, best for the toductyon of the anexthesia but must be removed from the room hile the current is in actual use. The bipolar current is a d-knowla current of low, voltage and high amperage. Coegulation results. Heat is generated by connecting one pole of the machine to a vell. vet muliferent electrode under the patient is on vell. vet muliferent electrode under the patient is

handle containing a sharp pointed darning needle The first step in endothermy is to describe in the healthy tissue a ring of destruction necrosis around the malignant area. This alleviates pain shuts off the lymph blood and nerve supply and permits removal of a section for diagnosis without danger of spreading the disease. After the lesion has been completely destroyed it is curefted or cut away with the seissors. The base is seared over with the cur rent to assure further penetration and to obtain a dry wound There should be no hamorrhage If a large blood vessel is near the site of operation preliminary ligation is indicated Secondary hæmor thage seldom occurs. The advantages of endo thermy are quickness and clearness of application accuracy of dosage reduction of the dangers of metast s an I the likel hood of recurrence rapidity of convalescence and a good co metic result

WALTER C BUREET M D

Bick E (Cancer Therapy fr in the Su geen's Standpoint im J R It 1 1924 The various phate I cancer theraty fr m the

surgeon's stan fromt are it we claim for the follow ing heads

1 Th neces its for co-operation between the

surgeon and rad ologi t 2 Why the leep carcinomy foes not yield as really to radium and roentgen ray treatment as

the superf 121 carcin ma a The transformation of leet tumors int surer ficial tumors preparators to railoth rails

Morphological and biol gight chinges of nor

mal an I cancer cells aft rea hati n (a) stimulati n of growth (t) steril ation (c) lls and (c) necros s of cell

s. The theory of the r lative radiosen illulity of normal an Leancer e lls

Surgery and r li therapy today I minute the f ll of cancer treatment. The surge n h s hall the beneft of gener tions of speri nce whereas the ra hologi is contributions though a hubbe re comparatively recent 1r per cell boration te tween the two would unlout tells ten i to ren fer

cancer ther by more efficient

Deep arcinon a foes n tyr ll really t a ha to n theraty as the unerficial chiefly be an e the overlying structures t a lar ier to the pen tr tion of the ras The essential regirm nt fra favorable result is the abil to to 11 v rint th cer a dosage of rays sufficient to lest on the life if e ery cancer cell with ut material injury t the adjacent normal body c ll In or ler to come le h this all f ctors entering int the pr 1 lem fg pr dosage must b con i lere i an i effort m le t deh er such los ge into the growth. In th u ra hum this result is of taine ite the ent ding the rad um within the mass

The surgical removal f the o ri g t ue ren lers leep tumors more amenable t r ! th at s This procedure a sociated with the r mo al of much of the growth as a safe t pos !! h s he n re orted to by the author in a con fr bl n mber and vari ty of ca s with sufficiently no results to make further trial of the meth 1 ad The history of several of these on a the te haq

employed and r sults obtained are reported detail

A thorough kn wie ige fith hist I gi al changes produce I in the tissues by h tin sam it nit only of scientife inte st b t ! of tr m b practical value B thin rmal and 1 ith I gical bod tissues vary in th ir re pon e to raliati n \coplastic tissues are e recially ratio tie 1h author le cribes the chang s used i c c cells by ra list on Not all ea cer cells are equally radi rec plive therefor the lethal d e viries within certain limits

The rad o ensibility of cance c lls is lue probably in part to their embryonic character but d'ul tles there are also other contributory factor The auth r a lyances the theory that as cone r cells are more or le girait eand rend rin ervice to the organism th vare lent I the prote ten agas st mury h h th n ro I working e ll of the l la recei es tox tex II gree M to

GENERAL BACTERIAL MYCOTIC AND PROTOZOAN INFECTIONS

Reg 1 J C. and R e n C A Report of Six Cases of Cutaneous Anthra Treated by the Local and Ce ral Administration of Anti Anthras Se rum 1m J M Sc Q 4 latt get

The Isad antage and langers of the local treat ment of mal gnant I ustule are numerous. The pus tule should be left along a local measure tend to fisseminate a le ner lzeth ! ase

The cur tive val e of anti anthrax serum h uld be regar! I a established In man anthrax a pro-

marily local infects n and in a large percentage of ares has a ! cute I ten tenes to r main I cal for the leaf in ret n a luer or Record syringe

with a capic to of it mato cem and a fine needle reuse! The ne !! is ins rt i int the in lurated borl r f the pustul just cut de the eschar and fir cted t frim 2 5 to 3 5 cm into the subcutaneo ti su at th b se f the lesi n 11 tal of from 6 to 12 m f the wrum 1 torreted the e ll being 1 sert fat two or three point a 1 the strum go n so as to tre meenbe the pustule. The injection are u ually m ! ent clto ca ionally in v ri thre times in twe ty four h is In KC CT 1 th uulae frm fourt i i jectio wil be sulci nt

r e in the nfl mm tion f llo s the 1 leht int to but within two rith eads the les n ivil il mir clanl ftrn eck the eschar ult rm; at the site f th ; t le Cu tures taker ft the first f ing t no r Imost al avs He they cural re was for the use of the L L rum h ve been l's usseling jous p pers

It lie l 1 to 1 prim nears to the gn s tamu ula a i ubcutaneous) ral (intr v n liminite t of the rum In light n gi FE the rum t bring be tith ul lence of the I all sont unt tit semia and to ant cipate
line tit he eliment i nihr x sept cama

r to tril the condition of it is dre typres nt. The frequency figet the amount i serum gin and the rout of limit to a should be selnthe my fth se Th serum al ministe el aris frm 40 cm e r t el e to twint fir hurs in mill sest fim 8 ccm to 30 c m v rv v to ght h rs th more evere es ith clumin us less n In spicem from ot tooe m houlilegienistae sh ever threet s h urs Thef et rathat h liser e 25 2 g le in th frot las s treatment re the si of the lesi na I the tent file soft edema M sive ! es shull be g h hil the r s it f th blood

pot the c ses of supatients who The auth r c ver 1 5 v otler h ve rec vered but the hi

culture is a late !

tories a e not include 1. A total of fourtier et have been trented su ce fulls by the auth r. In addition they saw two cases a the spitiacrum on admission to the ho pital. Death resulted in encitlust enty four hours and in the other with a thirty six hours. (AATON IAT M.D.

Young H H and II II J H Th Treatment of Septicem a and Local Infections by Mer curochrome 220 Soluble and by Gentian Volet J m W 1 924 1 609

Sen cases—to of sep 1 to of ponephril two of bertillings colo infection of the kidnes and bladder and one of as end ng retroperation al nefection—were teated by inter-neous inj tions of mecsucochrome. In all the roulis were ecelling to the case of eput the lood tearner ster le in the case of eput the lood tearner ster le in the case of the case of eput the lood tearner ster le in the case of the cas

From the it is evid at that mercurochrome 2 or is of value as an intravenous germicide

In five cases of staphyloc ceus infectios treated with gentian violet the result were qually good Centian iolet his apparently a letty action on gram no iti taph locot.

SAME KEE VED

I ons E E The Port Is of Fnt y of Chronic Metastatic Inf ctions (d) I I J 9 4

Among the most num rou and do bling of chronic m tast its infect n ar tho of the joints and the eves. The scommon to contact effects of the ic local infection e et in types of sith mittee (true and cettim utaneou is o such a erithem multifornea j r them nodosum the contact in the such a transition of the such as the

DUCTLESS GLANDS

Chri ti n H A Ti Us and Abu of Endocrinol of y (d H 4 J 9 4

krowledge of the gl i f nt nal cr tion may te obtain d b

i Constru tung a andr m or po l g to the table light hereal change of bred in o of thes structures and pr ingit c n t nt i i tin this under the changes. This is mis to it re-rebod for man lly means of it driven l se has be, i treel to destruction of the adr n l se has be, i treel to heperly stic that d h as m of mee is to pattu attach print and the property of the second structure of the

sta ce This method led to the t tim nt of diabetes with a sul nand of exof hith lim cg it ith this roll.

3 Ob ervi g the changes r sult g from the removal r lestruct n of a glan i Fo e ample

ten oval of the thereid i followed by mysel ma fith furatheroris by tetran of the ovarie by the menor ause and fithe testes by eunuchism

4 Applying inferentially to man the knowledge obtained from experimentation especially with animal. The may not all axis be correct, the u e of adtenual in asthma does not prove a lision of the adtenual.

By such methods certain definite syndromes have been recomized as the result of diturbances of certain glinds. The function of the pineal and this mus gland the placenta and the mammary it such still do cure

In hyperfunction of gland removal by surgery or destruction by the \(\text{Treat are practically the only applical le p occlures. These methods have been used only in the treatment of die ease of the thir of and pituitaring fland—in the latter ith little success.

In hypofunction the field is larger and the treat ment is non surgical. However only the thyroid and pancreas have yielded good result. So far efforts to tran plant gland have not been successful

When the active principles of a greater number of the gland are isolate I we may expect better results. The effects of the administration of ovarian ext acts are indefi ste. Adrenal extract and I som e tent pitu iriv e tract have been us I in sub-I tution therapy.

There are very fev let nite test for mea uring the function of alan!s In hypofunction of the thyrod the basal metabolism man be used as a gu de to the dos ge of thyroid extract. In the treat ment of d abete the amounts of sugar in the urine a 1 blood are accurate und ces. For the other cland.

th reare otests
With regard to pluriglandular affections our
knowledge: till more imperfect and at present the
abuse of endocrine therapy is quite endocrine therapy.

abuse of endocrine therapy is outweighing it benefit Marcis II Holart M.D.

Ingelbach W and McMahon A Osseous De elopment in End crine Disorde s I d 1 4 924

In hypothyroid children between the ag of a and 123 ears roentgen ray studies of the bones showed absence of the os itication center for the normal age nd underdevelopment of the carpal bones 1 ca e of su jecte l hyp rpineali m at the age of 6 years showed the de elopment of only 14 years \! metacarp I were pre ent and all ep physeal I nes vere clo ed (mplicate i cas s of the thyropitur t 13 type showed evilence of advanced level pment chi fly in the carpal bones and the oss ficat on center of the lo g bones Cases of pituitary thyroid le ficency exhibited a slight delay in the development of these centers Studes of the hypergon I hand at the ag of 13 years sho ed all epiphyseal I nes cle ils open and the h nd much larger than the pituitary thyro d han! The difference in the eq. phy al lines was constantly pr sent in the e cases The incre s d length of the hypergona I ban 11 due to failure of these lines to clo

In case of layers cal mat the agreed (special tempts and less were dist) while I case of lef since of the anter it bleef the pitturary left at the area of the agreed of the pitturary left and the agreed of the ag

The fift finites g. 1. Which the train sense is the terms the figure that for each term is the freeze of the anti-rank be of the fitted that for the fifth for the fifth for the fifth for the fifth fitted that the fifth for the fifth fitted that the fifth for the fifth fitted that the f

The risk applies right name of reent gragame hwast amoust proof faults to longe William Linkers MD

MEDICAL JURISPRUDENCE

Failur to Reduce a Dislocation at the Fibow

McC mak u tain la sing! I cknar! I we tin of the light. It w. Dr. II ver when h. Il I to attent him are el about three quart (an her late. There of exancination great I then ce its falmini to gana with ten rife.

tered the models were the factor to the fourth of the factor and tell verth prothere where the models between the arm we placed solve for the factor of th

The acclination curries leads in hit paties was alised to me it locator from the fill wing Mond. On not the arm was a swollen that it was seen released to the me with the me the me will be a me with the me the me will be the me with the me will be the me with the me will be t

M n las there were aftered like ters on the arm. The arm was hath it treated with antiseptics relief well and life in the same point in After mere than three weeks fill one the arm.

dert the arm remai cl m panful that the p ti nt e n ulte far ther ph trian Arventg n gram then ms at of that the I location wa n t red ced and that there was ne fro ture of any of the bores I menth aft t the acc ent an anasthetic was al m n 1 test and three thysicians man ulated the arm a lattled the recognic I methods u u li entlyed freely to Ther att mote h e er erer t succes ful Later another this ma t of the at by ant c kneste Ingalout em bekmar i sin at we the kint die vered the disbe tenn a I after set trating the I gaments and must fam the dist wat 11 n sto which they h 1 bec m a ther nt mat an ther attempt to eff et reduct b This al was un access ful on a count nte ctun of the mu les surmar is the t its and it will necessary to resect about to in the the hum ru. The arm eventually he alod but there w slittl m is n in the point and the fingers were gurtially paral ed. The unfaver ble sequelar ere early 1 b medical way ex a being the natural antiroballer neer n fibe i lav of peratio e it e ar tibec urt tilit pr per for subn i n the jury. The o tagin of gillication the so the locate that aph in rangern is an wall of an ijur to high ne resulting frmant fith req t k allge iskill or from the man not we reason the readed go einsterestment for path to rate took h re and ilgen t ises the pat is mit ling or il greel that he a bound to let utre atte trinricre till a 3 the neather and u geo in militarish bet wel an later in log gelath same gen Ilne first ring rily have a der use in

t leasinitheths: nwapproed

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES I BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE O. THIS I SUE ON WHICH AN AR TRACT OF THE ART! LE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

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cs C 1 PORTER and E D C tR tL g GAn & Obst 924 xxx 11 3 b 113 Acase I t steagt maith lp dhk 1 Ztschr f L ra gol Rhal 93 H (Vi sign Proc Ace fostetis fthelwrj (t J'S Ho s itt i Adams t ep thel or LEV Ann Sug 94 lext 358 The principle of n mpl t of th ith im fit I elp L lymphat ch n l DURANTE A ch tal o DURANTE A ch tal d h o 3 II
The method i p t atta ki ce t iles ith
l wer jaw J C Bloodgood \ \ k tat J M o 4 EX 39
Domo tat n feg low the fith m xill J Ro ENTI L Bru il méd 94 f th infe o

Eye

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Ast d) of the b ter lg, ith rmals d flr d J cu a with p cual fe t th p n fth str ptococcu nd p urrococcu S H M k e C ad M A J 924 6 f the [3] In I gumm tu I tt CILVE Am J Ophth. 9 4 3 s The flue e of n YST THUS C L WOOLSEY In the Khmol & Lary r l 0 4 t 35 cssov Am J Ophth 0 4 3 s 99 [3 The d l pment the chim set pp t r r in Ot! Rhmol & Lary g! 04 t and I pment ith commod to pp tir.
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Supplementary to

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

N extensive review by Drs Blair and Mos kowitz of Litner's work on pla tie sur gery of the face baled upon a number of Eitner's original papers forms an interesting feature of this month's a sue of the INTER NATIONAL ABSTRACT OF SURGERY Most Ameri can surgeons are familiar with the work of Morestin of Cillies and his associates of Kaian uan Blair and Ivy and of the many other French Briti h and American surgeons who particularly during and after the war did so much to put plastic surgery of the face on a new and high plane of excellence To workers in thi field of surgery who have not been alle to follow the simultaneous development of plastic surgery in central Furone Litner's work will be of special interest

In o papers of which abstracts appear in this month's number deser e particular attention because they reflect to a high degree the surgical experience and judgment whose po ses ion is rightly considered the most important qualification of the able surgeon Judd's discus ion of the problems encountered in the treatment of diseases of the biliary tract (D 130) emphasizes agun the direct relation that exi to bet seen the liver the call bladder and the pancreas and the importance of carefully examining the liver and panereas in operations directed primarily at pathological conditions of the gall bladder Bonney's paper on conservatism in gynecological surgery (n 136) stresses the importance of conerving the uterine and ovarian function and the possibility of doing so in the presence of conditions which are too often treated radically

A number of subjects in the field of gentiournary surgery discussed in this month is soue of the Anstract help to make this department of special interest. Bumpus paper on gentiournary tuberculosis (p. 149) stresses particularly theimportant piontis in diagnosis and the necessity of early surgical treatment. Hinman and Vorsion contribute an interesting study (p. 144) of the circulatory changes in hydronephrosis tuber culous and poly-stite kidney.

The toxemias of pregnancy are discussed from various standpoints in several helpful papers study of the after effects of late toxemias of pregnancy (p. 138) emphasizes the frequency of permanent impairment of the kidneys

and its bearing upon subsequent pregnancies Berkeley Dodds and Walker discuss the value of the liver test in relation to the induction of premature labor (p. 118)

The treatment of generalized forms of purperal infection with neo-arrophenamine at the St Antoine Vaternit; Hospital in Paris is reported by De Sant Blase and Joanny (p 141). A distinct improvement in the results obtained has been noted during the four years in which the method has been in u e.

A NUMBEP of brief abstracts of papers by McCrae Manges Funk Moore and Lukens continue the symposium begun in last month a issue on foreign bodies in the bronchi and lungs and suppuration in the lungs

The results of sugreal treatment in the presence of diabetes and the management of such cases is his used by Adams and Wilder of Rochette (p. 163) and Viller of I hiladelphia (p. 163). The improved results obtained in recent vears are due both to careful attention to many details of pre-operative and postoperative management and to the u e of insulin. In Adam and Wilders series of cases 41 per cent recent ed insulin.

The essentially malignant character of Hod kins disease i emphasized in two papers in this month's issue of the Anstract Goja's discussion of the pathological and chinical features of tumors of the lymph glands (p 16) emphasizes the differential disgnostic consideration in Jimphatic enlargements Stone's report of the treatment of Hodglain's di ease with the Nay and raddum based upon a study of 200 cases (p 166) presents a very gloomy prognosis for sufferers from this condition

Two timely papers on fractures and dulocations in the months issue deserve particular mention. Schlaspifer's report on 157 uncom plicated cases of all location of the shoulder (p 161) treated by reduction and immediate mobilization at the Surpeal Clinia in Zaurit stre ses the growing tendency toward prompt sesumption of normal activity in the treatment of injuries and dicases of cases of computed fracture of the surgical neck of the human (p 165) concerns an important and difficult surrical problems.

INTERNATIONAL ABSTRACT OF SURGERY

AUGUST 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Grant F C The Treatment of Fractured Skull \ Am 19 4

In the last ten years the tendency has been toward greater conservatism in the treatment of head injuries and decompression has been per formed less frequently than formerly

Grant divides the cases of cranial trauma into three groups (1) those which will be fatal what ever is done (2) those in which spontaneous re covery will result and (3) those in hich death will occur if no treatment is given but life may be sa ed by proper interference

The injury to the cranial bones is less important than other factors Fractures of the base of the skull even when small are much more serious than those of the vault because of the proximity of the vital centers in the former

There are only two indications for surgical inter ference in cranial trauma the prevention of in fection and the relief of increased intracranial ten

In cases exhibiting signs of increased intracranial pressure and neurological ev dence indicating in volvement of a particular part of the brain operation should be performed as soon as poss ble after subsidence of the shock of the injury Intracranial ten sion alone does not require immediate intervent on This condition the author believes can be handled more effectively by lumbar puncture the adminis tration of hypertonic solutions by rectum or intra venously and ventricular tap

Subtemporal decompression is a last resort and is rarely done earlier than fort) eight hours after th injury. The purpose of this operation is to allow the cran al contents to expand outward and thereby relieve the increased pressure

When a portion of the bone is removed and the dura opened one of two conditions may be found In one a large amount of cerebrospinal flu d escapes and the subarachnoid pace is distended with fluid

In the other condition no fluid escapes when the dura is opened the subarachnoid space appears empty the brain surface is congested and the brain is pushed through the opening in the skull some

When this membrane is nicked in different areas

more fluid is liberated. This is the wet brain

times with great force. In this type of case opera tion is of little value

In both conditions dehydration and drainage may be effected from within by lumbar puncture and the use of hypertonic solutions at least as well as by subtemporal decompression and these procedures do not add the strain of operation or leave a defect in the skull.

All scalp wound demand immediate attention to determine the presence or absence of a fracture and for debridement and suture. If no fracture is found on exposure and gentle probing the wound should be cleaned washed out with an antiseptic solution and closed. If a fracture is found it should be undisturbed unless foreign material has been driven in When foreign material is found in the wound it should be cleaned out the edg s of the bone rongeured away to clean bone and the wound sutured around a small drain which should be left in place for twenty four hours

In cases of depressed fracture the bone should be elevated from within through a small trephine opening If cerebrospinal fluid is found escaping the opening in the dura should be sought and su

tured and the wound treated as in the other cases The routine methods of treating cranial cases are described in full Briefly they are as follows
r If the patient is in shock the head is lowered

external heat is applied and half an ampoule of pituitrin is given. A solution of 2 oz of magnesium sulphate in 6 oz of water is given rectally and re peated every four hours Nothing else is done until the systolic pressure rises above 60 mm and the temperature has become normal

Y ray plates and a careful neurological exami nation are made

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- 3 If the neurological signs point definitely to a certain area in one hemisphere that region is exposed Decompression is not done if the neurological signs are vague. The intracranial pressure is reduced by the methods described.
- 4 If the pressure is found to be more than twice normal it is reduced gradually by spinal puncture. That is two or more punctures are done at eight hour intervals.
- 5 If in spite of the spinal punctures and the r ctal injections the condition becomes worse the pul e failing and the blood pressure rising but not accompan ed by increasing stupor or depression of the reliexes root cm of a 15 per cent solution of sodium chloride are given intravenously at the rate of 2 c cm or minute
- 6 If the stupor is advancing and the neurological picture is changing for the worse the posterior bori of the lateral ventricle is tapped on one side through keen's point in addition to the administration of sodium chloride.

The author believes that by these methods much better results have been obtained than by the more hasty and less conservative procedures

OSCAR S PROCTOR M D

Eitner Von E Plastic Surg ry of the Face (Ar viw by V P Blai a d M J Mosk witz of a t cles apperting as ea! E penjurnals)

NOSE

Eitner a first attempts in the field of nasal corrections go back to got and were inspired by the communications of Gersuny in reference to paraffin injections and of Joseph regarding his first n sal plastics In 1913 Eitner published an account of the first ten years of his work. Including saddle nose there were 120 cases of pasal corrections rang ing from the correction of slight depressions to that of the most severe luet c types Various materials were used in the operations but ivory pro ed to be Subcutaneous operations we e under taken to (1) level humbed noses (2) correct or oked noses and (3) shorten the nose by a wedge shaped exci ion from the septum. The tip of the nose was set back by means of a straight 1 cision through the septum and its size was diminished by partial excision of the alæ. The alæ themsel es we i m de smaller by e cision of sem luna strips and dog no e and similar malformations were corrected by suture of the alar cartilage The employment of apparatus was found unnecessary. In additi n to typ cal corrections there is a l st of special procedures adapted to particular cases

According to Ettner the idea of doing cosmet c mail operations by submucous approach enginated with and was systematically improved by Jo eph The most important of these procedures were (z) r moval of a hump (z) diminution of the size of the nose and (z) total shortening of the nose. The hump w s removed with a saw after the soft t sues of the dor un had been raised through an inc s on within each nostril close to the lower border of the transgular cartialize. When the resulting note was too broad because the bridge was not high and narrow Joseph submucously freed the mail bose from the nasal process of the manile and present from the nasal process of the manile and present from the nasal process of the manile and present from the nasal process of the manile and present from the nasal process of the manile and present from the nasal process of the nasal process of the nasal closed the span with sutures. The he of the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the wedge was toward the dorsum. This may cause the support to the dorsum of the dorsu

Patients who had very marked deformities were not apt to be too particular about the results and for them the Joseph operations were usually entirely satisfactory. However this is not always frue in the cases of patients who apply for the correction.

of slight or fancied deformities

To a sod the undesirable width of the dosum and obtain the desired outline Either lays a fitted wory insert subcutaneously along the bridge after thor oughly removing the hump. This was first done by him in 1013 and has always proved a satisf copy

procedure To remove a hump and at the same time shor en the nose Eitner frees the septum from its attach ment to the under surface of the dorsum m kes a wedge excision in the septum higher up than in the Joseph operation frees the dorsum as a wedge shaped mass with its base toward the tip of the nose by obliquely slotting the nasal framework on either side presses out the hump and after pushing the aper of the wedge up and toward the nasal process of the frontal bone fixes it with sutures in the sep tum This work is all done from the inside without disturbing the tissues that support the retained part of the ridge Resection of the triangular tar tilages of the nose may or may not be indi ated depend ng upon the requirements of the particular case Overcorrection is found necessary in all cases

Enter cons ders the replacement of lost ratts of the nose the most difficult of all the problems in plastic au gery. He has ne er been calid upon to replace a whole nose but has successfully restored half of the nose by combining a fight place the foorhead and a flap from the check with its bus at the libonasal angle. He has found that vory forms the best supportung framework for the bridge of the plant of the contract of the contract of the might entire the contract of the contract of the might be the contract of the contract of the plant of the manilary bone. For replacing lost of the contract of the contract of the contract of the plant steep from the care and carried over by means of a pedicle russel from the scalp.

For the cor ection of the abortma y wide rose joseph ong nalls, remo ed a strap from the full thickness of the ala on each sade but later to a oil the skin scar he confined the removal to the car talge and mucos The results of this operation may be improved by fixing a clamp on the ty of the nose in the saving it in place for eight days Eitner found this satisfactory in some cases but in others the thickness of the skin prevented the remaining parts of the ski from falling in as desired and the resulting, scar in a broad ext on occused and object tonable notch in the border of the nostril. To a void this Either makes an incision along the lot er border of the nostril from the tip half way to the cheek and after elevating the skin from the underlying structures incises the alar cartilage and mitrous interest of the control of the contro

left in place for eight days Saddle nose Paraffin was first employed for the repair of saddle nose but the poor results obtained by the best paraffin technicians prevented Eitner from using it As a rule cartilage implants ere satisfactors but unless most of the perichondrium was pre erved the cartilage became ab orbed within seven months. The extra operation and the scar resulting from the incision necessary to obtain car tilage or other to sue from the patient are both serious objections Eitner therefore e perimented with many foreign substances. He finall adopted nors becau e it is easily molded and easily steri lized it i not apt to become infected it causes no react on and t becomes well fixed in the ti sues He has had the greatest trouble in using it in the syphilitic nose a successful primary esult being obtained in only three of twelve cases in six the defect was repaired by a second or third operation and in three the final result was a failure. The cases treated unsuccessfully showed lack of septal support and the pre ence of ozena and secretion which led to infection. At phy of the mucosa also probably contributed to unfortunate results in a few cases The want of sental support can be overcome by inserting viry small inlays and lat at interval of six or eight ceks substituting larger inlays until the desired size is obtained. Occasionally greater fixation can be obtained by placing the t p of the insert in a hole bored into the frontal bone above the na ofrontal sutu e

Late a deve tion According to Either the oblique ne se should not be classified as congenital as it seld in becomes manifest until after the tenth year. It has not yet been determined whether this condition due to a congenital predisposition or to some trauma or disease of a nasal or neighboring structure. Possibly it is the result of changes in the cat talge or the bone or of both.

For the corrects nof crooked noses only operative measu es should be used. If we are pt Bonning haus theory that the deviation is due to over developm nt of the septum during the growing y ars it p ars desirable to operate early for the removal of a strip of these ptum to effect its l beration.

To co rect deviation of the cartil ginous part D effenbach liberated the latter from the bony

framenork through a subcutaneous necision and held it in its proper place with adhesive bandages Joseph transplanted the maxillary attachment of the septum Koch and Brandenberg devised methods of dealing with the septum For the correction of deviation of the bony part Trendeen berg freed the nasal bones by a combined mucuos and cutaneous approach Goodale with a exissors cut through the septum on a line r cm from its theory of the septum of the control

Joseph resected a triangle from the union between the nasal bone and maxillary bone on the wide side and made a linear cut on the other side he molded the bridge with finger pressure hammer blows or a rhinoclast and then fixed it in the desired position Eitner at first followed the more modern operators but later returned to the older plans of Dieffenbach and Goodale which he modified so that the entire work is done subcutaneously or submucously. In dealing with the bony part of a simple deviation the nasal bones are freed and the bony bridge brought to the midline If a lateral deviation is complicated by distortion of the bridge itself the nasal bones are first cut in strips with the scissors and molded and the lateral deviation is corrected later Eitner employs scissors to cut the bone be cause in this way it is possible to preserve the perios teum and to avoid annoying callus Fixation is obtained by the use of tampons These are removed on the second day and replaced by adhesive straps that are removed in eight days. The patient must be kept under observation for six weeks. If there is a tendency toward recurrence of the displacement at must be corrected at once either by repeated finger pressure or by the use of some apparatus Estner uses Joseph's apparatus which is worn for several hours at first every other day and later at longer intervals. When necessary the septum is resected later preliminary resection of the septum may cause saddle nose and the performance of the entire correction at one time tends to make the external operation more difficult

EARS

Prominent ears. The correction of prominent ears must be operative as the results of conservative must be operative as the results of conservative methods are not worsh the energy spent upon them. Up to party when Entered method of the promise the accepted method of one prominent ears was to exect from the conclusion of the process of cluding cartilage and the skin on the posterior surface. Geruany reduced the sace of the set most office and the promise of the promise of the process of the proces

The result depends not so much upon the type of operation as upon the skill of the operator. Either believes that the plan he proposes will give the

inexperienced operator better results than other procedures because it is exact in execution and has the further advantage that it diminishes the size of the ear to a certain degree. The essential steps of

his operation are the following First the ears are held back against the skull in the position desired and the extreme limit of con tact between the skin on the skull and the skin on the back of the ear is outlined. When the ear is again drawn forward, the markings will be in the form of an ellipse the vertical diameter being the sulcus between the ear and the skull and the trans verse diameter the line of the first incision. The incision is made do n to the perichondrum and periosteum and the skin area included within the ell ose is elevated with a blunt dissector. The in cision in the perichondrium corresponds to the skin incision but care is taken to avoid cutting the blood vessels The incision is next carried through the cartilage and the skin is elevated from the enterior surface of the cartilage as high up as its upper attach ment and downward in front of the antihelix. If it is desired simply to set the ears back a sickle shaped strip a few mill meters wide is removed from the cartilage the excision extending sufficiently unward and downward to destroy all of the spring that tends to hold the ear away from the skull. If it is desired also to diminish the size of the ear a wider strip is removed The cartilage and perichondrium are adjusted with cateut and finally the m thed-out mece of skin is removed and the edges of the defect

are approximated with a few sutures Diminishing Il e si e of the lobe Abnormally large and flabby eat lobes though not common may cause their possessors considerable worry. For their correction Joseph recommended the removal of a edge of the entire thickness of the lobe This procedure is usually very successful but the scars may be objectionable. In the case of a man whose lobes were broad flabby and more thin so mm long Extner removed a crescentic piece from the posterior surface through almost the full thickness of the lobe and approximated the borders of the defect The size of the lobe was reduced a tisfactorily and the scar was hidden on the posterior surface. In other cases Eitner found that the shape and size of the cr scent to be removed may be varied acc rd g to the requirements of the 1 dividual case

Replacement of a missing p t The difficulties of totally reconstructing the small parts of the ear are so great that heretofore no general plans h ve been est blished every operation depending upon the character of the particular case. Either reports two cases in which he replaced missing parts

FACIAL PLASTICS

Throughout these papers Extner advocates the correction of factal deformaties for the cosmetic as well as the functional results not only for the benefit of the patient's peace of mind but also for economic reasons. Since the war scars on the fe care much more common than before and often cause their

possessor more unhappuess than other deform the stata can be haden. The retiousness and the difficulties invol ed an their correction and the roin infrequent poor results have heretolore discourand surgeous from undertaking such operations. However, with proper planning and pittence desarable results may often be obtained. To carry on the surgeous discourance of the control of t

Restoration of tissue losses Lexer opposed the practice of distorting the surrounding structures by drawing together the edges of a defect Eitner agrees with Lever insofar as his dictum concerns large defects that would necessitate great under mining collateral incisions or the use of heavy tension sutures and certain cases in which the filling tissue must be of a pattern not easily obtain able in the immediate neighborhood. In other cases he considers the immediate vicinity the ideal source and obtains his material by allowing the wounds t scar then excising a strip from the scar and im mediately approximat g the edges of the defect Three weeks later he excr es another strip from the scar and approximates the edges. This procedure is continued until the entire defect is cl. sed with one linear scar The tissues gradually stretch to fill the defect. The method is best adapted to the forehead cheeks chin and neck region. When a ped cled flap is required it is taken when possible from the immediately surrounding tissue. As it is desirable that the resulting defect be closed by primary suture it is often better to take two small flaps than one large one Eitner resorts to transplantat, a of fl ps from d stant sources only , hen the flaps can not be obtained from the surrounding tissue H enumerates the various sites from which jump flaps can be secured and calls attention to the incon venience caused the patient by using the hand or arm as a vehicl for carrying such flaps. He has jumped a piece of the ear to the fo ehe d by means of a forehead flap and from the fo the d to the nose by means of a brow flap and has transpl nted oral mucous membrane first to the outside of the lower hp and then by a skin bridge from the lower hp to the desired posit on on the upper l p

In sees of very small bone defects the san and soft tissues are approximated over the defect. Cet tain large of fects may be filled v th no y plugs before the soft tissues are approximated St larger def cts in olving both bone and soft issues are may require bo e plastics or combination stan and bone plast cs. M nvd fects equi e elevation of the sins surf ce on account f the is sof the underlying tissue fat muscle or bune. To remerly this los yadding must be ch sen ac dus, to the post on and character of the defect fat and m. cle mu t be padded by soft us use and bo e by bone or hard

tissue For soft tissue Eitner uses de epithelialized skin taken from the immediate vicinity or obtained by free transplantation If the defect is so small that it can be readily filled up with adjacent skin a corresponding strip on either side of the wound margin is deprived of its epidermis and put into it in the process of closing. The filling up must be excessive for one must count upon a definite result ing shrinkage. If this method is not applicable free transplantation is necessary. In the latter proce dure the defect is closed and later a piece of skin of corresponding shape is chosen (preferably skin of the back) deprived of its epithelium with a Thiersch knife and excised The excision with it of a layer of fat is of little value as fat undergoes considerable shunkage If a thicker layer is needed the flap may be doubled with the fat surfaces together and the de epithelialized surfaces above and belo dency toward heal ng in these cases is good if the operation is carried out with care for asepsis and the bed is properly prepared The flap must be at least partially in normal tissue and must not be entirely surrounded by scar tissue Besides skin flaps pedunculated muscle flaps may often be con s dered for padding Formerly Eitner used decal cified bone as a soft tissue support but stopped it because he observed marked absorpt on of this material For live bone tibial transplants are the best but Eitner often uses ivory implants. A de pressed scar may be de epithelialized and the sur rounding skin and soft tissues approximated over it When a hard tissue implant is used it is better to repair the soft tissues first and make the implanta tion later

For Thersch grating the pieces of epidermis are taken according to the usual technique. Peces as large as possible are moved to their destination and spread out with a kinde. The surface is then covered with two or three layers of silver fol. Upon this dry plaster of Parns is spinished and over this a plaster-of Parns bandage is applied. The silver fol prevents the adherence of the graft to the plaster and the latter by later breaking up into small pieces gives earl to secretions and absorbs them. In this way and by the p otection of the plaster band age the grafts are held in place until they are fixed

Check defects it they do not penetrate into the mouth extensively can be closed by drawing the mouth extensively can be closed by drawing the margins together or by closing them in stages with excusion of success te scars. In some cases the mucosa must be replaced under such streumstances the use of a skin dip scens to be the best method. Either has obtained good functional and cosmet creatlist with von Hackers modification of Israel's medical but the scar on the neck from which the creation of the contraction of the con

been described by Brockart and De Bruck and may

follow the injection of paraffin or vaseline into the tissues are dependent chiefly on the formation of giant cells which crowd in and split up soft paraffin Etiter believes that paraffinonata are more com mon than is generally supposed and he is not sure that hard paraffin is always immune from the sequelze mentioned. Therefore he advises the discontinuance of its use altogether.

Correction of small scars Sipgle small scars do not cause disfigurement but their multiplication as in smallpox scars may be most objectionable and multiple scars are most difficult to correct Acne and injudicious depilation may produce similar but less pronounced deformities For the removal of pits separated from each other by only thin laming of scar Unna recommended the use of a polishing stone and for the removal of those more widely diffused he recommends carbon dioxide snow Eit ner believes that these scars should be handled by surgical methods-transplantation-since the plans suitable for the care of large scars are in miniature applicable to the smaller scars. In addition to the usual instruments Kromyer has used the dental Eitner has three ways of handling these scars depending upon their location. For a patch of acne scars he smooths and at the same time freshens the surface with a fine dental burn then after clean ing and shaving an area on the thigh he goes lightly over it with a burr without producing bleeding and after collecting the epithelial scales thus produced he denosits and smooths them out on the raw surface where they heal under a crust the patient being kept as quiet as possible. In cases of larger flat scars he freshens the area with the burr and covers it with a Krause graft taken from the upper thigh In the treatment of still larger and deeper scars be uses grafts taken from the surrounding areas after ap plying the burn

Bolste ing up the skin Eitner reviews the condi tions in which it may be necessary to raise up de pressed areas in the face and cautions the surgeon against the troubles which may follow injudicious attempts to correct irregularities. For padding of the skin without the formation of a visible scar on the face the greater portion of the face can be reached more or le's easily through the mouth or from the nasal ornice. The cheek region can be approached subcutaneously through the acoustic passage or by means of a perpendicular incision beyond the angle of the mouth For the region of the nasolabial fold the incision is made about 2 cm beyond the angle of the mouth and is extended to the lower edge of the ala of the nose For the region of the lower cheek a low incision is made from the same starting point. The chin and the adjoining portion of the neck are reached from the lower formix of the vestibulum ons The region of the nose up to the glabella is opened by an incision on the inner margin of one or both nares As a padding material Eitner prefers freely transplanted de-epithelialized derma to fat He has had good results from this material Anyone who has struggled with free flap transplants and has observed the daspounting results which seem to be rather unform a say to reveal to the suggestion more than passing conderation. The fact that a full thickness in consideration properly placed will rap dily take up and the blood supply encourages the belef that Kinner's suggestion may be most valuable for the filling out of depressed areas So far the reviewers very indicated experience with the plan leads them to hope that such will be the case. Their observation of this technique extends over a period of only one year than the contraction of the contractio

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The greatest ar ety of coccepted plastic methods is found in hip plastics. For the upper hip the best in found in hip plastics. For the upper hip the best material. It has been supported by a method similar to that of von Brain When the adjacent skin is not usable. Elater employs the skin of the neck For the lower hip Morgan's method is sometimes applicable. In this procedure the skin of the entire thin and under chin is elevated and pushed up but the upper margin must be doubled to produce the natural slope of the hip. The reduces of the lips can be produced best by distinct the standard of the size of the lips can be considered by the distinct of the lips can be produced best by distinct the size of the lips can be greated by the consideration of the lips can be considered by the consideration of the lips can

Defects in the chin region offer no difficulty unless they are combined with defects of the jaw. If they are not too large they may be drawn together at once. If more material is necessary it is best to obtain it from the submaxillary or neck region.

SUGGESTION AND HYPNOSIS FOR AVÆSTHESIA IN COSMETIC OPERATIONS

The poor operative results observed duning and just before the say which were believed to be due to the poor quality of the drugs obtained at that time died litter to take up hypostism. He found it satis factory in almost all cases but occasionally at lattled For severe or major operations several pre paratory scances (three to s.) were held. At the final scances in operation will be satisfactory. For more operations sample suggestion was used with out previous preparation.

Not the least valuable point brought out in the oppers is the importance of estimating the platine is mental receit in to the defect under consideration and of predetermining just what the correct on sepected to accomplish. Not infrequently patients rome with very enagerated deas as to what surg by can accomplish and therefore may be d appointed with even very good aurgical results. As Eitine po its out this is most apit to be true of persons who esck correction of sight or in need defects but it is true also of many, who have very great in the state of the presentation of the presentation is a made for a grip who had lost be valid to be the conce but this has in no way releved the extreme mental digities.

EYE

Adder F II The Local Control of the Ocul r Circulati n 4 ch Ophik 1024 h 1

By means of an apparatus maintaining a constant intra-ocular pressure. Mice demonstrated that stimulation of the cephalad end of the cut cervical sympathetic diminished the rate of formation of the aqueous humor in the cut a eve. The avitena blood pressure was maintained at a constant level but a sudden ri ein the former produced an uncreased formation of anterior chamber find. The author considers this fluid a transudate A momentary apparently increased formation of aqueous humor apparently increased formation of aqueous humor sulce were intact. An identical result asso obtained by the apol caton of gentle nessure to the excell-

Therefore in agreement with Starling and Henderson the author concludes that stimulation of the cephalad end of the cervical sympathetic brings about

Transient contraction of the muscle fibers of

Constriction of the intra-ocular vessels
 There is no evidence of intra-ocular vesodilatat on
accompanying such stimulation

A H PEMBER MD

Re e R G An Operation for Blepharopt is with the Form tion of a Fold in th Lid 4 h Ophth 1924 1 6

Reese reports twenty one cases of blepharoptors with fifteen illustrations of the operative treatment and its results. He gives as indications for the operation described. (1) congenital phosis due to defective development or entire absence of the levator (2) acquired phosis my opathics.

The operation corrects the backward pose of the head by permanently elevating the lid and exposing the pupil. Its cosmetic effect is good also because of the formation of an extensive fold in the skin It does not cause jasophthalmos during sleep.

Local anæsthesia is induced by 2 per cent novocame and adren I n and a Jaeger b rn plate inserted beneath the upper lid A curviline runcis on is then made through the skin the entire e tent of the lid so that the center of the curve s 6 mm from the bd margin a d the e tremit es of the incision are 4 mm f om the l d margin The skin is separated 4 mm abo e and mm below A second me sion is made be neath the skin down to the t rsus 2 mm below the curvil near incis on A th rd incis on is made beneath the upper skin flap to join the atrem tes of the second inci ion so that the distance between the second and third incisions is 6 mm 1 to-mm por t on of the crescentic area is left intact a d t o lateral flaps a e dissected f om the tarsus The skin and a boutaneous tissue above the cre centic area a e elevated from the tarsus and tarso-orb tal fascia to f m a pocket to re eive the crescentic area when the latter is drawn upw rd

From above the eyebrows a double-edged knife is thrust downward close to the fascia at 25 degrees first medially and then laterally to emerge at either side of the attached crescentic area. The sutures are passed through two free flaps at the end of the cres centic area and threaded into fenestra in knives A double needled t visted silk is passed through the upper border of the attached crescentic area 2 mm from the upper border upward to emerge above the crest of the evebrows and is tied over gauze to produce marked lagophthalmos The lateral and medial flaps are pulled up through the knife wound above the brow The excess flap is excised and anchored by means of a suture introduced through the upper edge of the skin the protruding flap and the lower edge of the skin. No sutures are placed in the curvilinear incision

Borated vaseline is applied to prevent desiccation of the cornea and is used at each daily dressing. The wound is covered with rubber tissue gauze and a bandage. The sutures remain even days.

After operation there is marked lagophthalmos but this disappears in a few days

A H PEMBER MD

Hyslop G H Spa modic Diplopia J 4m M i

Hyslop reports seven cases of trans tory diplopan occurring independently of the use of the eys to new force of the control of the control of the new fine the control of the control of the sympathetic new force of the autonomic portion of the sympathetic new force of the sympathetic new sympathetic new force of the sympathetic new have been found, in one person the syndrome would have been that of vagotions. The spasmond of plopia is due to a transitory spasm of certain muscles suppled by the occlomotor nerve.

UM TOOSEN II KI

Ewing A E Duct Conservation in Lachrymal Ab cess 1 ch Ophth 9 4 l 3

Exong attributes unfavorable results from the use of lackryn I probe to a lack of knowledge of the anatomy of the lackry and duct. He demon strates the anatomy of the lackry and duct. He demon strates the anatomy of the lackry and the strates are the strategies of

The suze of the probe selected in any gr en case depends upon the sease with which it will pass through the canaliculus. Usually a probe which is tor 12 mm in d ameter will pass without force. On this bas a probes should be constructed with a gradation but the constructed with a gradation. The construction of the standard. The construction of the construction of the floor of the nose their length from the finger plate should not exceed 45 mm.

For dilating the upper canaliculus should be chosen as its shorter and the arc of the curve enter ing the bony duct is only one half the arc that must be traversed when the lower cruniculus is chosen Thorough anasthesia should be induced with co came and holocame before the punctum is divided or dilated. If incision is resorted to it should never be over 3 mm long. It is best made with a curve? Weber knife directed backward to conceal the incision beneath the lid margin. The sac the masal end of the duct and the duct should next be anæs theti ed with 5 per cent cocane solution.

In its manipulation the probe should be introduced horizonfally until the nasis wall is reached. The singer end should then be raised to a vertical position and the probe end quieded into the duct by pressing the forefuger over the sac. Syningian immediately after the passing of the probe is contain indicated on account of the possibility of extrasastion. Therefore Exing does not make use of the syninge until after from twenty four to fort; each thous?

The use of probes is often discouraging because no immediate result is obtained. A second probing should be done in from six to eight weeks as time should be given for the chronic swelling to subside and new epithelium to be formed. Dramage will be established by any small opening made. By careful established by any small opening made. By careful established by any small opening made. By careful established by any small opening made and extended to the control of the

A H Pruber MD

Cottle M H Postoperative Adhesions of the Vitreous to the Cornea 1m J Ophth 924 3 s 11 263

The author reports four cases of adhesion of vireous strands to the corneal wound following the di cis ion operation with knife needles for secondaricataric The shit lamp permits easy and early recognition and observation of these synechies. They originate in the vitreous itself—not from the secondary membrane. Their structure varies in exture and strength. Depending upon the structure and the direction of the fibers irregularities of the pupil occur. The synechies do not tend to disappear spontaneously. The occurrence of this complication probably.

depends on the composition of the viricous or tige operative technique used or both It is possible that the deheate fibers of the ligamentum by alonder capsulare are pulled into the wound and undergo a change due to a low grade inflammatory reaction of a chemical change which causes them to become a chemical change which causes them to become a change of the properties of the cases the increasing a composition of the cases the increasing a composition of the cases the increasing a composition of the cases the increasing a composition of the cases of the case

The synechiz may cause complications such as secondary glaucoma late infection and prolapse of the vitreous Mantorn R Waltz MD

Wagener II P: Refiniti and Renal Function in Cordiora cular Renal Disease Am J Ophil 1924 3x vi 272

highly cases of reliant occurring in patients with hypertension were class tited according to ophthalimotoopic appertances into four groups (2) reliand at rockerosis of hypertension type with harmorthages (2) art insockerolic reliants (4) retaints of hypertension (1) we apphases and (4) retaints of hypertension (1) we need used to have a consistent of high patients of high pati

In the twenty-eight cases of retinal arterios leep sis with hemorrhage treal function was lef nitely impaire I in 5 per c nt while in 12 per cent there wa moderate re luct not phen hulphonenhthalein excretion In the twelve cases of artery sclerotic retinitis renal function was fishingtly reduced in 20 per cent. Lut there was elevate n of blood area in only if per cent In 60 per cent more there was moder ate reduction f phenol ulphoner hthale n excrets n In the twenty the c eases of retinitis of the hyper tension plus neghritis type renal function was fefinitely lim fred in 17 per e nt while there w a mind tate re fuction in the ability to excrete phenol sult b nephibal n in an a ff ti nal o per cent In the seventeen c ses of retlasti of the penhilic type renal functi a was h tincily relice I an I there was considerable retention of blood uter in o per cent in 21 per cent more the chenol ulphon phthalein excreti n was malerately re luced

In the group of eighty c ses there were tw fre which were lef nitely lagen we las chronic glow r with rept in Ten of these patients h I retunits of the neghtitic type one a retinities of the hyper tension 1 s nephotis type and one only retinal homorphases in a sociatin with retunal artern)

sel ross. The f rest would appear that although phenol sulphone phthaben exerction is fedinically impaired in me, t persons with anteno d ratic exhibits in an approximation of the children extensive the major person of the cases only in an appreciably percentage of the cases only in an approximation of mirr sensus wiste products in the blood is come in in the production of any of these persons of the cases of the complete of the cases of the complete of the cases of the complete of the cases of the cases of the complete of the cases

White I E. The Treatm at of Optic Nerve In v I ment a Determined by Optic Canal Ra diograph 1 2 to c f 19 4 i 55

I ollowing an anatomical study of the optic canals in which they were fund to right in size from at to 65 mm and in ship efrom the usually circular to the oxal thoushow the oxal thoushow the oxal thoushow the oxal contesting to t

Thirty six cases of uptic nerve disturbance and twenty five normal cases were studied

The optic canal is normally circular and approximately 5 fmm in diameter but may say fmm is to 6 5 mm. Its size and shape can be determined by careful rocategorgaphy. When a severe neutrino occurs in Cansta abnormally small there is great dinger of permanent impairment of vision whereas the same impairment of vision in cases of normal cansits as fit to be followed in a prontaneous recovery ventus in normal or all normal canals seems to be estimated onem. Have C Respect. M.D. of estimated onem.

FAR

Littl II I Suppurative Labyrinthiti 5 r

Expensive with laby ninth disease has shown that by far the most important factor in the success full management of this continion is the correct diagnos. It is known that bestruction of the flow of the laby ninth by disease processes may be can of the laby ninth by disease processes may be and without further laby ninthone 15 myronic and without further laby ninthone 15 myronic and authout further laby ninthone 15 myronic and subout further laby ninthone 15 myronic and subout further laby ninthone 15 myronic and 15 myronic case of non-intentional public ninthone 15 myronic and 15 myronic and 15 myronic case of non-intentional public ninthone 15 myronic nint

result. The auth r reports f ur cases representing certain types of laby mith disease. Case 1 tous or metistate labyrnathins. Case 2 ir crounsented supportaine labyrnathins (Lase 2) chronic supportaine labyrnathins (Lase 2) chronic supportaine they mithing the properting labyrnathins (Lase 2) chronic supportaine they mithin seal and menting the supportaine labyriathins facial paralises and menting its a supportaine control of the supportaine labyriathins and crecibility above.

A petaky S J and Almour R Observation on the Diagn wife Value of the Cold Cal ric and the Rotation Tests Loy to c pc 19 4 X 41

Labymith tests are of value to determine the amount of funct on present in the end-organ. Such tests mike it possible to dig mose the various discuss of the labymith with some degree of certainty and serie as gu les in letermining the time and mode of operation on the end-organ in suppurative condi-

The tests h ve a definite place in neurology but their value is limited because of the lack of histolog cal evilence to v rify an t clarify clin cal observa

tion

Kopetzky and Almour corroborate the find ags of Fortess with regard to paradox cal r actions. They believe also that calor c nystagmus and rotary systagmus are different in character and or gin

There is apparently a direct relationsh p bet een the duration of the after nystagmus el cited by rota

tion and the time required to produce a nystagmus

Syphilitic involvement of the central nervous system causes faulty past pointing after labyrinth stimulation despite the absence of spontaneous

signs of asynergia or dysmetria

In the authors opinion no definite conclusions can be drawn from induced past pointing when the spontareous pointing is normal

JAMES C BRASNELL, M D

hettlekamp F O Mucosis Otilis Lay g sc pe

Mucous otitis is a disease which is insidious in its onset difficult to diagnose and traceherous in a course. It was first recognized by Gohn. This report by kettlekamp goes into considerable detail regarding the etiology, pathology, and bacteriology of the condition. Three cases are reported. The important points in the article are summarized as follows:

- t Clinically two types of acute offits media are distinguished the common type and the so-called
- mucosis otitis
 2 The so-called mucosis otitis may be caused by
 the streptococcus muco us capsulatus or the diplo
- coccus lanceolatus capsulatus
 3 Capsulated breteria cause symptomless de
 struction of bone and ymptomless intracranial
- complications
 4 Mucosis otitis presents a characteristi clinical
- picture

 5 The pre ence of the streptoroccus mucosus capsulatus in the spinal fluid is pathognomonic of otogenic intricranial complications

AB MLN R II LLE DER MD

Leitch J. W. A Case of Acute Bilat ral Otitis
Media Associated with a Large Abscess of th
Right Frontal Lobe J. Lo. g l. = O ol. 924

X 1X 2003

Lettch's patient was a boy ag d cars. The unusual fertures of the cond tion were rapid onset and severity of the initial symptoms followed by a decided slowing of the pule d terms on of the symptoms for a time.

There were absolutely no signs or reflex changes during I fe to indicate the localiz tion of the ordition. The localization was decorred only at post mortern examination about x weeks after the onset of the acute 3) infroms.

TRIN IL P Sch STE MD

NOSE AND SINUSES

Verte C. I Traumatic Absces of the Naval Septum in Children with a Report of Fi e Cases 14. If J o 4 1 18

Conditions presenting a pi ture som what similar to that of traumatic absect of the na alseptum are (1) syphid tic gumm of the set tum (2) polypus (3) h Pertrophy of the nferior turb nates and (4)

thickening of the deflected nasal septum with soft hypertrophy of the mucosa

The prognosis of traumatic abscess of the nasal section depends upon the promptness of treatment. The latter should consist in measures to obtain adequate drainage of the abscess to combat 53 mp toms of infection and to prevent deformity.

To prevent deformits 'early replacement of the separated mucopenchondrum to the cartilage is esential. Therefore drainage should be dispensed with as early as possible. To aid in the approximation of the flaps the author prefers the largest rubber drainage tube that can be employed in the nortris and the use of gause packing as indicated. The tube angains part of the sit of place for one seek and perforated hollow hard rubber splint which is used for three weeks.

Yerger draws the following conclusions

r Traumatic abscess of the nasal septum is relatively rare considering the frequency of nasal trauma in children

2 It occurs as a rule in early childhood and is the result of slight trauma. On account of the insig nificance of the trauma many of the cases are not recognized.

3 Unrecognized or neglected cases result in un sightly nasal deformity

4 In every case of injury to the nose in children a Careful examination should be made for evidences of a septal hamatoma or abscess
Orro M. Rorr, M.D.

Lewis F O Th Radical Frontal Sinus Operation with the Results in Sixty Five Cases The p

Ga 1924 l 1 229

After tracing the development of the external frontal sinus operation as performed tools. Lews describes a few modifications he uses in the perform ance of the Millian operation and a new operation devised by Howarth of Fdinburgh which he performed in his last four cases. In conclusion he teviews the results in sixty he cases of frontal a nus suppuration operated upon radically.

The modified killian technique consists in the following steps

r The eyelids are sutured together to protect the

2 The skin and deeper structures are infiltrated with of s per cent novocaine and a 1 10 000 adrenal nosolution even when general anesthesia is used. This is done to reduce the harmorrhage

3 Coakley's minums are made. The first or upper mixing in smale though the upper margin of the exchow and extended through the personteum to the tone bown and extended through the personteum to the tone. The lower and actured in a curved direction downward along the tone midway lets een the unper canthus the read the dorsum of the rose to the miner to bother of the mixed bome. This pie ents purken g at the inner canthus of the cyc.

- 4 In extremely large sinu es last t by serts the overhang is removed from the upper margin and the septa are partially excised and examined for acce son cells
- The steps in Howarth's te hnique are if follow ing
- A curved inci fon a ma fe just un ler the sur ra orlital margin and I to ight down in front of the inner canthus onto the si le of the nose
- a An incision is carried down t the hone and the perusteum covering the rocf of the in ser wall of the orlit it raise! the pulley of the superior oll que being thus detached from its notch and all of the orbital contents and the lachry mad duct are his
- placed outward 1 The sinus is opened just above the laches mal proove and with a Citelli I reeps the sinus f'me is remove I with minimal Is turbance of the mu osa

4 The I re in front of the nasofrontal du t is

remove I with Citelli f reeps

- 5 The ethnicil is entered through the lichri mal grosse and the cells are remn ed Anew misofr nist luct i forme I further forward than the ld one a g uge and forcers being use I to rem he the ascent ing trice s of the superior masilla and of the na al
- Ince s of the frontal bone 6 Listge first wall i tul ber tube is pushed up the nose into the antern r part of the sinus and the lower end is stitched to the all of the se
- The ortital co tents are allowed to f ! bick into place an I the incisu n is cl
 - 8 The tube is remo i after ten fars Orro M R rt M D

Ru kin 5 L : Punct e of th Maxill ry Sinu

L 1 2 2 1924 X 10

- The auth r makes his puncture in the inferior m atus and as the mo t I wrable site f r puncture selects the proce us reaxillans of the inferio tur 1 nate
- Ti nee lie u li a thin nee lie curve I towar lits tip with a sharp peint an I with a mark 1 cm fr. m he tip in I cating the average list nee bets in the anterior has I spine an I the site fel et on for the puncture He han il is a modificati n of that of Pein's needle ts B St & M D

PHARYNX

Bigelow \ A Type of Inucleat r Tl at Isolates the Ton it and Its Cont at from the With and Tharynx Durl & To Illect my La £ 40r 10 4

Duting tonsiliect my as it is a ually performed crum blood jus ant c sous flug are extru i l from the tonsil int the mouth and pharynx The awallowing or inhaling of the septic material mu t be prevented for the pt po the auth r has invent da suction ar par tus which may be ttached to the ton I instrument

The basic principle is a cut attachable t a suction apparatus and a cutting member that sl des across th mouth of the cup. The attachment has been use I with success on the Sluder Beck and San ? Instruments

In some re pects the modification a ideal but it Is doubtful whether negative pres ure will ever prove as safe as 1 t I manif ulate n Unless care is exer Cael in e ntrolling the suction in the use of the blu ler method there is danger of removin a port on of one or both piles. In the we of the Beck instru ment uch ar i lents do not occur

J MIS C BRASWFIL, M D

Sh kter A J A Modificati n of an Old But S fe In trum at f r the Complete Enucleati n of the Ten it La g cf torq xt

In the author s open on the old Beck Schenck or Reck Mueller instrument is the salest for beginners In competent han is the Slu ler instrument is safe tut the most c mpetent operator meets with aco dents if he employs this in trument r utinely

Shekter escribes a new instrument for the enu cleat on of the ton ils which is modeled in general after the fleck Schenck snare but unf ke the latter has the a lantage of a sluder handle and trigger atrangement for pulling up on the wire loop. It b s also the a lvantage of easy many ulate n The han dle is removal le ni adjustab It is a safe tostru ment f r the Leginner The operative technique is similar to that of the Beck Sch nck method

IN St Br well MD

Saren n Malignant S oplasm of the Pharyng and Laryns Sirgery Radium and Reentgen Treatment (Next met mal n des ph na et d ium t ithtpel 1 1 36 h rurgi எப்டிட 1 023

Of the author's cases of malig nev of the I wer Part of the phary na only ne was cu edi a per od ol three years This was is fretro crico aritenoid epithelioma in sh h by me ns of laryngof ssure ra | um was applied to th s t rior of the tumor for

nty f ur hours The proposits in cas is of ntrinsic I ryngeal can cers is er ve Not one of the autho s 1 es has been ere beneht d temporarly cured the may r ty tut th conditio recurred Rec ntly in cases treated with d ep roentge therapy there has been more marke l imir eme t

In intrinsic e n r of the lar nx th progno is is very much letter I en when the lesson h s preid an fespecially hen it inv l th post ior laryn ge I wall the auth pe form I ry g issure ad treat with ra lium a d th \ ra s These are the cases in which mire r di al s rb ns perform a

lutin ect my

With the fl t the tratm at of the localized forms especially corlasms of the socal corls there is I tile dill ren e of opinion the m jority of su geons all oc tig laringon ure with exercis s of the disease lord it my do not use adu after the peration aref rring rountgen th rapy alone The uthor urge I ryngofissure with wide resects n of the cord followed by the application of radium and then of the \(^1\) rays at first to the open wound and then through the skin. In none of his cases in which this was done has there been a recurrencenot even in those in which it was necessary to resect

both cords Berard and Sargnon treat cases of malignancy of the lower part of the pharynx by the internal and external application of radium or very deep roentgen therapy or a combination of the two Cases of pharyngolaryngeal extrinsic cancers they treat by tracheotomy and the internal and external applica tion of deep roentgen therapy In the glands which appear to offer greater resistance to deep roentgen therapy than to radium ridium is applied exter nally with the use of thick filters. In cases of exten sive intrinsic cancers of the larvax a tracheotomy is done and followed by radium and very deep roent gen treatment. In localized types a laryngofissure is followed by \ ray treatment. When radium is employed a small dose is left in situ for a considera ble length of time W A BRENNAN

Caliceti Biological Methods of Teating Sar coma of the Upper Respiratory T act (1, méthod sb log qu det tem nt de s omes des p emièt es sp t t) A h t t d la yng l 923 xx 99

The usual biological methods of treating cancer which are based on the blastomy cetic nature of the neoplasm occasionally result in improvement but rarely have effected complete and definite destruc tion of the neoplasm. They are therefore inferior to surgery The Citelli method has been applied here tofore exclusively to sarcoma This procedure is based upon the p inciple of autogenous vaccination In order to provoke in the organism the specific substances which will combat the neoplasm the patient is given injections of tumor substance which presumably contains the causal agent of the d sease After its remo al from the tumor the tissue to be used is washed in a per ce t solut on of phenol and washed from three to five times. It is then divided into small fragments mixed with glass pond r and a ste ile phenoi solution (5 to 8 c cm per gram of tumor) a lerushed in am rt r Before an intravenous injection is given the solution is filtered through gauze cotton and filte paper

In the first injection from 2 to 3 gm of tumor are given in the second from 4 to 5 gm and in the third from 6 to 7 gm In all f om 10 to 12 gm or more may be used

Following the injections C telli noted necrosis in sarcomata and more recently in endotheliomata and carcinomata. At first this is superficial but later becomes deep blocks of neoplasm being spon taneously eliminated. Microscopic examination shows the neoplastic cells in the process of cytolysis.

C liceti reports the following cases treated by

Case t Myxosarcoma of the left nasal fossa Recovery maintained for six months CASE 2 Angiomatous my vosarcoma of the right nasal fossa Recovery maintained for a year

CASE 3 Lympho angio-endothelioma of the neck and parotid with glandular metastases Decrease in the size of the tumor and arrest of proliferation CASE 4 Small round call appears of the left

CASE 4 Small round cell sarcoma of the left nasal fossa with propagation. The patient's condition is good but there has been no decrease in the size of the tumor

Calicett states that the majority of recoveries reported occur in cases of sarcoma or mixed tumors of the upper respiratory tract. In some instances it is still too early to conclude that the cure i permanent. Citelli has recently cured two cases of endotheloma and two cases of carcinoma.

W A BRENNAN

NECK

Ol n R M I lod ne Deficiency and the Prevalence of Simple Golter in M ch gan Preliminary Report J im M i s 924 lt u 13 8

That the state of Michigan has an abnormally high percentage of cases of goiter has been a matter of common knowledge for years but of no great concern either to the public or to the medical pro fess on It was not until 1918 that the matter was given serious consideration. An extensive survey has shown that in the northern parts of Michigan the incidence of Loiter in children is much higher than in the southern part of the state and that this is due to the fact that the amount of iodine in the water in the northern areas is less. With regard to the age incidence of the condition it was found that in boys goiter is most frequent at the tenth year and in girls at the ag of 12 This would seem to indicate that congenital cases run approximately even up to the age of 10 years. With regard to the relation of the condition to scholastic standing it was found that among both boys and girls there is a definite increase in the incidence in children below scholastic grade

The most satisfactory method of preventing gotter is the administration to all school children of 10 mgm of iodine n the form of nodostarine in a chocolate tablet once a week for forty weeks. \ \text{more simple method of supplying the deficiency is to give the iodine in the table salt.

ARTHUR L SHREFFLER M D

The Ms sch I edutr c Sonety appointed a commission to study the gotter problem as it affects children and adolescents. This commiss on in conjunction with the Ministry of the Interior sent to the state physicians seven questions covering the most important symptoms the cause of the condition and the treatment

From the answers receive I Seitz draws the following conclusions

Among children with goiter there are many in whom increased circumference of the neck is not associated with general disturtance but is a sign of growth or maturity. In such cases so dothers;) is not necessary.

In the districts of Bayaria in whi h endemic gotter is found it is a lystal le to recommend prophylaxis with lodized sodium chlori le ar I instruc-

tion of the pulle by means of leaters

With the consent of the parents organic or mor gaine preparations of foline in minute does might be given to school children. This shoul I be done according to the method used in Switzerlan!

BEITE (Z

Amerobach Inj ries to the Recurr at Laryngeal
A ree in Thyrold ctomy (L ber Recurrens
wheel gu gen as he trum et mie) It be f
Ita. Voca-wal Obreah t 1921 | 447

Disturbances of the motility of the vocal cords are by being gotter are extremely rare. In 2 3 cases of fernign gotter their incidence was less than 0.4 per cent. The number of injuries to the recurrent largueral

If e number of injuries to the recurrent lary ngeal nerse is much greater than is generally supposed and the relationship of such injuries to the different methods of operating for golter has not been determined.

This article deals che fly with the df cult problem of determining the presence of privals is of the word cords. The author d scuses the sources of errors in this letermination in letail. The ris certainly a profusion beyond the midline in is fire of the fact that the hast been doubted. A correct interpretation of the position of the arytenial certifiag and are crusion of the west corns is of great imprivations.

The author emphasizes the necessity for a care ful laryngolo scale examination before and after oper ation. I roper interpretation of the find new requires training in laryngology. RULLENGERY (2)

Fetterolf G The Lie of the Galvanocautery in the Treatment of Tuberculosi of the Larynz. La vet 1 h 10 4 x 1 y 200.

The te haique of galvanopuncture is simple the only requisite be or a moderate amount of desterity in intralaryingeal manipul tion. The work may be done by direct or indirect lary agoscopy. The latter is usually least distress no to the nation!

The use of the galvanocautery favors the arrest of tuberculous processes by producing vacualination and fibrosis. The method is applicable to all types of letions and by means of it penetration to be full denth of the diseased area; a roosable at once

The action is very quick and the reaction is harm less and negligible

less an inegignor.

In the author's op mon the galvanorauters is the only therapeutic agent which has proved of true are constant val e in the surgical treatment of I paneral tuberculosis. It gives relief and effects a cure in all types I les ons and in min otherwise incurable cases. I trys C. Briswell. MD

Turner A I Metastatic Malign nt Turner of the Latynt Secondary to Ad nocarcinoma of the Right Kidney J Ley gd & Ola 1924 23311 151

The case reported was that of a o-year-old man with metastases in the suprarenal gland their war and the thyro I from a primary gro thin the not kdoev

A d tailed report of the postmortem and age in these organs is given and supplement d by six figures demonstrating the gross and microscope path logy FRANKI P CHUSTER WID

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Adson A W Pseudo Brain Abscess S g Cl

The author revereed three cases in which the hotory was definitely that of brain abs ess In two exploration revealed only a localized encephalized in the third the treatment was expectant. All of the patients recovered All had a history of ottiss media and mastod involvement followed by acute encephalitiss with cerebral 35 imptoms 4 hich later cleared up revealing signs of localized excerbal in volvement. All ran a similar course of 35 imptoms with a septic temperature and a leucocy tosis typical of the tertiary stage which gradually subded nito the quiescent stage with spontaneous re-

The first patient was a girl of 14 years who one month prior to admission to the hospital developed otitis media on the right side after an attack of measles This was followed by a right temporal headache Examination revealed a right acute suppurative otitis media with a cloudy right an trum a leucocytosis and a septic temperature Pararentesis of the right ear was performed but did not give complete relief Exploration of the m stoid revealed infected granulation tissue with some de struction of cells there was no evidence of sinus thrombosis After the operation the cond tion improved somewhat but the right temporal head ache and leucocytosis continued and there was chok ing of the disks of from 3 to 4 d opters with hamor rhage and facial paralysis on the left side. One month after the patient s admission to the hospital the facial paralysis and choking of the disks were increasing and a right temporoparietal lobe abscess was feared Exploration re ealed an accumul tion of fluid in the subarachno d spaces and congestion of the convolutions on the surface, the only findings being those of a localized encephalitis. The explor ing trocar encountered a deep mass but no pus bloody cerebrospinal fluid was obtained from the ventricles but a culture of this was negative. A ventriculogram showed a poorly filled right anterior horn The postoperati e course was une entful and the patient was dismissed on the tenth day. She has apparently recovered completely

The second patient also a gut of 14 years had symptoms similar to those of the first Her condition began with atypical scarlatina which developed into streptococcis sore threat bialared lottis media and later suppurati e cervical adentits. After a month there was marked improvement for three weeks but this was followed by signs of cerebral disturbance (urritability duz ness right homony

mous hemianopsia swelling of the left optic disknight hemiplegia and partial motor aphasia)

Examination revealed chronic suppurative otitis media on the right side cedema of the left middle ear right hemiplegia a leucocytosi and a daily increase in the temperature. Nine days after the patient's admission to the hospital and nine weeks after the onset of the illness a left temporal lobe exploration was performed because of persi tence of the cerebral symptoms. The findings were practically the same as in Case r A culture of the cere brospinal fluid from the ventricles was negative The postoperative course was uneventful When the patient was discharged on the twenty seventh day she still had some eye trouble and a partial right hemiplegia. Five months after the operation her condition was practically normal and she was able to carry on her school work. During the previous five months she had three convulsions two with a slight residue and the last one with none

The third patient a girl of 13 years had had left outs media for seven years and three operations in the mastoid region. A month before the registered at the Majo Clime steeptococcie over throat developed with involvement of the Bands and a supra orbital with any observation of the part of the supra orbital sughet aphasa and the right pupil was larger than the left. With a septic temperature there was a leucosy tosis of tooo.

The left mastoid area was again explored but only granulation issue was found. The patient was kept under observation for two weeks and finally dis missed. Aside from a questionable convulsion followed by slight weakness of the right hand and the persistence of the leucop toss her consulscence was uneventful. As there was no other evidence of cerebral involvement no further operation was performed. The patient has remained well for two jears.

After a review of the typ cal history and the clinical and surgical findings in cases of brain abscess the author concludes with the statement that physicians must be un the lookout for these cases of pseudo brain abscess which so closely simulate the typical abscess

Kaestne H Experiences with Puncture of the Corpus Callosum at the Leip is Surgical Clinic (E ishru g n mut d m B tkenstuch n de Lepiger charursushen klumk) D t he Zisch f Vers heile 931 ktro 3

The author reviews 120 cases in which puncture of the corpus callosum was done in the treatment of congenital or acquired hydrocephalus brain tumor epilepsy or id ocy In a considerable number of the cases of hydrocephalist tumor of the cerebral hemspheres and non-localizable tumors a di-tint decrease in the symptoms of pressure was noted. On the other hand in cases of tumors of the cerebrallum and the region of the third sentrole the procedure had an uniavorable effect in these cases puncture of the corpus callosum is contra indicated because of the changes in the circulation caused by the growths in a large percentage of the eases of epileps a fairly good result and in some cases continuous improve ment was noted. Holeve rem and funfactoric

The dangers associated with puncture of the corpus callosum are not great and in no way greater than those of ventricular puncture. When the correct technique is used hæmorrhages of the yeins of

the dura need not be feared

PERIPHERAL NERVES

Boorstein S W Obstet ical Brachial Paralysis (Erbs Palsy) J im M Ass q 4 1 xii 862

Taylor's fraction theory of the causation of obstetrical brachal paralysis has been generally accepted. The brachial plerus is occasionally appropriate from the brachial plerus is occasionally injuried by the forceps but more often by a finger during improperly executed tract on in the delicity of the after coming head. Occasionally in cases of vertex and breech presentations cervical nerve floes, are signed by compression between the clavicle and underlying bone structures and probably less often are incertated by excessive tractions as in delivery of the posterior shoulder when it is caught on the persuance.

The upper arm type of paralysis is the result of a lesion of the suprascapular nerve and of the fifth and sixth tervical nerves just beyond their union Less frequently the entire plexus is injured this causing paralysis of the whole arm. When the eighth cervical and first dorsal nerves are involved.

paralysis of the lower arm result

As a child with the upper arm type of paralysis g to older the arm characteristically beense abducted and rotated internally with the ellow sightly flexed the forearm pronated and the palm looking backward in the typical policemans it position. The child cannot abduct or rase the arm at the shoulder because of the paraly as of the deltoid and supraspinates. Internal and external rotation of the arm flexion of the elbow and supraspino of the fore ran are lost

In the whole arm type of par lysis there are in addition to the findings mentioned wrist drop paralys s of the flexors and extensors of the wrist and fingers and greater atrophy than in the upper

arm type

In the upper arm type partial recovery is the rule. In the lower arm type the shoulder muscles may recover somewhat but the lower arm muckes do not. In the former sensation is normal and in the latter it is lost. Atrophy of the humerus and scapula is usual

Early complications are facial paralysis fracture of the clavicle and separation of the epiphys a of the head of the humerus Late complications are secondary posterior subliziation of the humerus due to traction of the unparalyzed pectorisis major subscapularis and teres major hooking of the acromion and pronation of the forearm

An important sign in the diagnosis is inequality
of the pupils which indicates many to the inner cord

of the brachial plexus on the inner side

To prevent this condition special care is necessary in the application of the forceps and the manage ment of the shoulders. In the Mauncean Smellie maneuver the index and middle fingers should be forked above the shoulders not on the sides of the neck but on the sternum of the infant.

In conservative early tr atment the shoulder should be immediately put in a splint or brace to prevent stretching of the paralyzed muscles and contracture of the unopposed muscles. Such a brace should place the shoulder in abduction and outward rotation the forearm in supination the elbow in flexion and the wrist in dorsiflexion. The splint should be removable for massage and gympas tic treatments. The latter are of the greatest im portance and should be given daily. Under this treatment a mild case will recover in from three to four months and a seve e case in from six to seven months If there is no improvement in four months nerve operations are indicated. The deform ty of the shoulder viz abduction and internal rotation can easily be corrected by tenotomy and the pro nation of the forearm by muscle transplantation PAUL R. BILLINGSLEY M D

SYMPATHETIC NERVES

Borchard A The Surgical Tre tm nt of Angina Pecto i (Zur hrurg h n B h dl gd Angi pe t) A ch f kl Ch 923 xxii 2

It is a nextly believed the the cause of anguaperio is hes in the coronary arteries. Whether the designates anguan pectors is a sort e pain (aortalga). Epin ger and Holer has a sort e pain (aortalga) of the se sory have greed the aorta. Thenty for your and the second of the second of the reflex and pain tones phetween the h at and great very large of the second of the second of the order of the second of the certain of the pain and you had cord by underded to the second of the certain sympathetic.

This was first done by Jonnesci.

Fain such as that of anging pectors may have also a psychic sou ce of o igin. The efore caut on is imperative in judging the indications for treatment.

and the results

The exposure of the depressor nerve and the carried synphatetic is technically difficult in cases of atternosclerosis pressure on the large vessels must be reduced to the minimum because of the danger of disturbing the cerebral circulation liquid to the vagues and support larguagation and large the depressars should always be done in two stages.

In a case of severe angina pectors which had been treated internally for a long time without results the author severed the left depressor nerve and resected the sympathics from the superior cenvical ganglion through and including the middle crevical ganglion Thirteen days after the opera of softening in the region of the distal branch of the left styling loss. Death occurred six days later

In the author's opinion the postoperative durbance of circulation was due to a slowing down of the current dependent upon the resection of the cervical sympathetic, and perhaps aggravated by local arteno clerosis. Resection of the cervical sympathetic is therefore not without danger. If there is any indication of a diturbance of the cere brail circulation or an evident artenosclerosis opera brail circulation or an evident artenosclerosis opera such class un lateral the colon of the depressor nerve is preferable.

MISCELLANEOUS

Pagniez P Accidents Due to Lumbar Puncture and their Pathog nesis (D s a aid t dus à l po is l'mbare t d leu p th gé se) P mtd I 9 4 x 1 5

The complication most frequently attending lum bar puncture i headache. As a rule it persi is for several hours and occasionally for seve al days. It is often accompanied by vertigo and nausea and at times by comiting. In some instance the punc ture is follo ed by pain in the back and a rise in the temperature Exceptionally there are more serious complications such as severe vertigo and syncope Still more rarely death results Lumbar puncture performed in the presence of tuberculosis of the spinal column may aggravate the spasmodic and paralytic phenomena and cause a serious crisis. In cases of septiceman meningitis may result. This has been demonstrated experimentally as well as chinically

These complications may be caused by the decompression resulting from the removal of the fluid the excessive production of fluid following the puncture or congestive phenomena provoked by the fall in the cerebrospinal fluid pressure. The headache will often be relieved by replacement of a portion of the fluid removed. It has been suggested that the headache is due to the continued leakage of fluid into the endural tissues, through the dura opening that the continued that the superior of the contant following lumbar puncture there is often at oil lection of fluid in the epidural space, the lumbar mussles and the subcutaneous tissues.

Meningeal hyperæmia may result from the production of a marked cerebrospinal fluid hypotension. In some instances lumbar puncture may cause hyper tension by stimulating the production of cerebro spinal fluid. The intravenous use of hypotonic or hypertonic saline solutions is of value in reheving the unpleasant symptoms attendant upon the presence of cerebrospinal fluid hypotension or hyper tension.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Lee B J and Herendeen R E The Treatment of Primary Inoperable Carcinoma of the Breast by Radiation A Report of Fifty Four Cases from the Breast Clinic. Rad logy 1024 in 12

Jenkinson E L Roentgen Treatment of Breast Carcinomata Radiol 87 924 II 151 Stevens J T Modern Methods in the Treatment

of Cancer of the Breast Rol 1 gr 1921 in 126
All of these authors agree that a careful phy secal
and roentgenological examination should precede
any treatment. By this cannot be able precede
tent and depth of the lesion and the presence or
absence of metastasis may be determined. The treat
ment will be rational and successful in proportion to
the degree to which these facts are sixertained and

appreciated LEE and HERENDEEN state that at the Memorial Hospital in New York the presence of any one of the following conditions causes a case to be regarded as inoperable (1) definite fixation of the tumor to the chest wall (2) marked involvement of the axillary glands of the same s de (3) definite fixation of the azillary glands to the chest wall (4) well marked fullness of the supraclavicular region of the involved side (5) palpable supraclavicular glands (6) firm palpable glands on the opposite side unles their presence can be well explained by some other lesion (7) evidence of metastasis in the other breast (8) diffuse extensive invasion of the skin (a) e rdence of metastasis to the pleura lungs or mediastinum (10) evidence of metastasis to bones (11) metastasis to distant organs such a the liver brain etc (12) so called inflammatory carcinom ta and (13) car cinoma of the breast complicating pregnancy in young women

Of all cases of caranoma of the breast come g to the clinuc of the Memoral Hoppstals in 1920 nearly two thirds were inoperable. If the condition 1 ad vageed and the patient is in poor general condition with a fairly marked degree of anzemia and cacheaus no vigorous treatment is attempted. These cases are not rejected, however because light radiati in will relieve the suffering and occas onally gives in

unexpected good result

In the less advanced cases more vigorous radia tion is given but the dangers of over radiation are borne in min Satisfactory regression can usually be obtained by a fractional dose method During this treatment the patient is general strength and nutrition are a fully maintained

JENKINSON and STEVENS di cuss operable as well as inoperable case They urge both pre-operative in postoperative r diation of those subjected to surg ry. They agree with Lee and Herendeen that every case is an individual p oblem and that there

is no standard technique which can be emplyed in all instances. While deep therapy with high voltag is used in certain cases moderate voltages are employed as a rule.

In the experience of Lee and Herendee and of Jenkinson the treatment of pulmonary metastasay has been unsatisfactory. In cases with metasta is to bone radiation often releves the pain This is es pecally frue in cases of somal metastas is

Lee and Herendeen report on fifty four cases of inoperable cancer of the breast. In all the tre insent as begun over three years ago. Ten (18 k per cent) of the patients are still alive and four of the tea are free from ev dences of the disease. In the others suffering was completely or partially relie ed for a consider ble time.

STEVENS experiences based upon n nety si cases sixty nine of which were treated by surgery and radiation and twenty seven by radiation alone. Seventh (2 per cent) of the patients are all e and free from any evidence of the diserse. Stevens does not mention the time interval.

CHARLES A HEACOCK MD

TRACHEA LUNGS AND PLEURA

Tucker G Rapid Deductive Diagnosis of Dyspnora Requiring Tracheotomy S g Cl \ Am 19 4 1V 85

In severe lary ngeal dyspinces the definite indications for immediate tracheotomy are (1) indrawing at the suprasternal notch (2) indrawing at the inner ends of the clavicles and (3) indrawing of the intercostal soars a nd episastrum. The author

reports an illustr ti e case
A rapid tracheotomy can be done low by splitting
open the entire front of the neck at the first incisson
so that the trachea can be felt. There i no need of
destroying the larvax by larvingot my or fattempts
to stab the circiothyroid membrane

CARL R STEINE M D

M nges W F Peanut Kernels in th Lungs Roentgen Rsy Diagno is of Non Opaque For ign Bodie in the Al Passag s S & Cl A dm 024 54

In cases of non-op one bodies in the longs the ray sign depend not upon the shado cast by the ray sign depend not upon the shado cast by the ray sign of their rays are the ray that of their rays the brought about by the foreign body pl s the pathological changes in the immediate winnity and in the dist raminectures of the bronch. There is first some degree of obstruction second a greater or les accumulation if exidate third a change incident to infect in and fourth displacement with millifunction of the viscera due to

changes in the shape size and fun tion of the

affected lung

In the vast majority of cases e 1 tration is affected more than inspiration. As a result there is obstructive emphysema. This must be differentiated from compensators emphysema. Mange de cribes the shadow of the exudate from the ordematous inflam mation and the shado of infection caused by the foreign body

An e posure should be made at full inspiration and another at the end of expiration. This i difficult in children because of their apprehen ion and air hunger If the foreign body and the ordema of the mucous membrane obl terate a considerabl portion of the trachea both lungs will show signs of obstruc tive emphysema. The appearance of air hunger is noted The diaphragm on both sides is alway lower at expiration than at inspiration. The heart a sumes a more vertical position at e-piration than at inspira tion If the foreign body in the trachea is of such shape or size that it does not obstruct a large portion of the lumen there are no d pendable sign

Manges emphasizes the importance of making repeated examinations and discusses briefly the mechanics of obstructive emph ema. The condition known as drowned lung he fin! difficult to expla n satisfactorily. In ca es in high the foreign body cause complet bstructio in the lumen of the bronchus the re idual air distal t the obstruction becomes absorbed rather rapidly and there is col lapse of the dist I portion of the lung. When a coniderable portion of the lung is in ol d there is

rather severe dyspucea

In conclusion Manges describes the fluoroscopic findings in a case of obstructive emph ema due to a peanut kernel in the right main bron hus EMIL C. K. ITSHER M.D.

McCrae T The D agnosis of a Foreign Body in a Bronchus S & Cl \ Am 9 4

There is a great d fference in the mmediate results following the aspiration of a foreign body into a The symptoms and signs also vary The secretion which is b ought up from the affected bronchu may p ss o er into the bronchi of the other lung and cause s gns on the other side of the che t If the for ign body has ball val e action the affected port on of the lung may become overdistended with air

The author reports the histori s of two cales illustrating some of the problems in the di gnosis In error which is c mmon particularly wh n the object is a nut 1 to regard the condition as pneu monia EMIL C ROBITSHER M D

Clerf L H Bronchoscopic Lung M pping in Disease of the Lungs S rg Cl \ 1m 19 4 01

Cleri calls attention to the alue of bronchoscop c I ng m pping in diseas s of the lung and reports a case in which a penet ating projectile as local 1 ed and a case of b onch ecta 1

The method u ed was introduced by Jackson A bronchoscope was pas ed and powdered by muth subcarbonate as introduced into the desired

tracheobronchial tree by insufflation

In the cases of adults the procedure 1 carried out under local anæsthesia but in the cases of children without anæsthesia \o untowar I effects have been observed Only one lobe should be mapped at one examination WILLIAM E. SHICKLETON MID

Lukens R M Pulmonary Abscess Following Ton sillectomy A Cure by Bronchoscopic Dra nage

The patient was a 3 year-old woman who had had a tonsillectomy under ether anasthesia six weeks previously The day after the operation she had pain in the right side of the chest cough with foul smelling expectoration fever night aveats hemon t sis and loss of wei ht and strength

Physical \ ray and bronchoscopic examinations led to a diagnosis of abscess in the lower lobe of the right lung Aerobic cultures of the pus were nega ti e no anaerob e cultures i ere made

The last bronchoscopic examination made four months after the first showed the tracheobronchial tree and it secretions to be perfectly normal

An interesting feature of this case v as the rapid its of the development of the pulmonary symptoms This suggested that they were of embolic origin but blood streaked sputum one of the cardinal signs of pulmonary embolism was absent until late Another indication that the abscess was not of embolic origin was the absence of marked destruction of tissue as endenced by the I ray and the

ran d cleaning up of the lesion

Both the ph sical and the roentgen ray examina tion revealed definite evidence of disease in the right lower lobe but d d not rule out involvement of the middle lobe Broncho copy however showed that the pus was assuing only from an upper and outer branch of the right lower lobe b onchus This finding was in agreement vith physical signs in the axillary region extending posteriorly to the region of the scapula

The treatment cons sted in regulation of the diet rest postural measures and bronchoscopic drain age to vaccine was used becaute it was impossible to obtain a culture

The bronchoscopic treatment consi ted simply in remo al of the pus by suction and the injection into the abscessed area of 5 c cm do es of a 20 per cent solution of gomenol in mineral oil While the quantities of oil injected were fairly large there vere no evidences of bronchopneumonia minute abscess formation or spread of the infection

Prompt and complete recovery resulted

CARL R STEINLE M D

Moore W F Bronchi ctasis and Pulm n ry Absce s S & Cl \ Am 19 4 1 87

The first case reported was a case of general pulmonary suppuration with bronchiectas in a

child years of age who had a history of whooping cough measles congestion of the lungs and in fluenza Broncho copy showed a large quantity of pus welling up from both main stem bronchi This vas astirated. At subsequent bronchoscopic eximinations the suppurating areas were located in both lungs. In a period of a teen months ixts two broncho copic treatments were given These cons sted in the aspiration of pus followed by irrigation vith a solution containing 2 gr of pieric acid and 7 drops of Lugol's solution in 1 pt of normal saline solution

As the patient became accustomed to the treat ment the amount of morphine gi en was gradually reduced the drug finally being discontinued. The bronchi draining the right ide of the chest ceased to drain pus and gradually the forus became localized to the left lo er lobe As the result of the bron choscopic treatment of the suppurative foci in the lungs the distressing gastric symptoms ceased en tirely but during a re pite at the tenth month all of the symptoms became aggravated The treat ment was interrupted to permit the patient to accompany his family to the seashore. The child gained steadily from 44 to 55 lb a d is now normal in weight and appearance. No hosp talization wa required at any time duting the treatments. The child returned to his home in the afternoon of the day of each treatment

In the second case reported that of a woman 21 years of age the condition was a pulmonary abscess following tonsillectomy Recovery followed peroral bronchial aspiration and medication. This case seemed to afford evidence of the aggravation of tracheo bronchial asthma by acute suppurative conditions in the lungs While the first bronchoscopic examina tion revealed involvement of only the mucous mem beane of the bronch; draining the suppurat ne area later examinations sho ed defin te ongestion and a spasm of the b onch al 1 alls and the presence of a thick secr tion which clung to the mucous mem brane After the focus of infection in the middle lobe of the right side had become entirely he I d the asthmatic attacks ceased

The roentgen ray showed that the healed areas became filled with fibrou tis ue the contraction of which caused the adjacent organ to assume a ne

Today nine months after the bro ichoscopic t eat ments were stopped the patient r mains free from asthmatic attacks and bas successfully pas ed through a very trying pregnancy

CAR R STEINE NI D

Funk F H The Relation of Bronchoscopy to the Treatment of Lung Suppuration Sug Cl

The author believes the tin cases in which there is a localized acute or chroni lung suppurat on without a pleural complication the most alu ble procedu e pronchoscop c dras age. The record of o e of his ca e i gi en

After noting how well the lung suppuration clears up after the causative foreign body has been removed by bronchoscopy and adequate dramage has been established Funk concludes that this treatment ha a rational basis al o in ca es of lung suppuration n t lue to foreign bod es Broncho c py is a v n valuable procedure in the hands of those skill d in its u e. There is no m riality and no appreciable all eff et in suitable cases Drainage is est blished by direct aspiration of infected material. Howe er bronchoscop c treatment is only supplementary to postural drainage rest in bed fresh air a nourish ing diet the free ingestion of houids and the use of

laxatives autogenous vaccines etc In conclusion Funk says that bronchoscopy will not help every case but its safety commends it to Twit C Ro its ex MD

GESOPHAGUS AND MEDIASTINUM

Tucker G Retrograde (Esophagoscopy Gastros copy and Duodenoscopy S & C? 024 IV 77

When retrograde examination and treatment of the asophagus ar contemplated gastrostomy should be done by a method that will permit the introduct on of a tube in a direction to reach th card a and the vound should be allowed to heal so that the stomach will not become separated from its attachment to the abdominal wall Proper healing usually requires two or three weeks

For the examination of the exophagus the author uses the esophagogastroscope of Jackson Anga-

thesta is unnecessary Before the exam nation i be un the stomach must be empty Food should be withheld for six hours or or to the examination and the stomach lavaged before the retrograde psophagoscope is introduced. The asp rati g tube will remove any remaining fluids

The ex minut on is best made th the patient in dorsal recumben) A small s nd pillow placed under the back just below the angle of the scapula will lift the spine so that the hiatus will be more easily acces the If it is desired to explore the upper resophagus the patient's head and shoulders hould project over the br ak in the table from the middle of the scapula up sard Cru al t nsion should be a oided

The te ho que of orsophag stomy and g stro copy is described in detail and two illustrative cas CARL R STEINER MD are reported

Pancoast H K The h Ray Diagnost of Surgical Cond ti n of the (Esoph gus S g Cl im 0 4 V 34

In \ ray tude of the asophagus Panto st has the patient swallow a apsule contain ng an opaque powder such as bismath sub arbonat or barrom sulphat The patie t then assumes (1) the e ect post on () the r erse position and (3) an oblique prone postion in the fluo o opic table with the right side of the chest on the table and the screen or the plate place I again to the left scapular region. The left knee is flexed up to the abdomen and both

arms are raised above the head

The exophagus is usually examined for obstruction discritical and fittide. Obstruction may be caused by external pressure on the exophagus produced by ancursing (usuall) of the arch of the aorta) a neoplasm in the neck the me liastinum or a lung enlarged gland in the mediastinum media stinal or pinal abscess or a large dilated heart. Changes in the exophagual wall may be due to neoplasms being ulceration cicatrization of an old ulcer congenital stenosis or after in The autho has found carcinoms most frequently in the lower third of the recophagus.

Farly diagnosis i important. Thi kepends upon Aria and casophagoscopic examinations. The si allowing of a liquid suspension of barium or bismuth will not all as receil carcinoms of the cesoph gust fails especially when the le ion i in the early stages before obstruction he become a market complication. In all cas in which the cau of p in cannot be found on routine extrimitation of the property of the case of th

The detection of opaque f e.g. book is c.m. partial et et es but rel ance cannot be placed en ti et ho en the fluorio ope as small object may be rlooked. Most foreige bot et ier none dimen on than the others will be fourn lying transversely in the crophigus. In the troch ethe usually is the the longest dameter in the ant oposterior opation. After the removal of one foreign both it is extremely important to make a second lying aximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an ther for eight both maximum time of the cases as an term of the case as an ther for eight both maximum time of the cases as an term of the case as

be p es nt

The presence of a non-opaque foreign body may
be demonstrated by betruction to the presence of
opaque liquid or emisolid food by the beha or of
paque food in the reophagu by g ving the patient
an opaque powder in apule for no let the

foreign be in opaque after the capsule dissolves and be the behavior of the capsule in the ocsophagus

Care must be taken to differentiate between the presence of foreign bodies in the air passages and those in the exophagus

Obstruction to st allowing may result also from reflex disturbances: The obstruction is always found at the hattus encophageus. There is more or less dilatation allow earlier with the result termination at a point in the lower end of the encophagus. The characteristic feature of the constructed area is a vern marked curve of the lower end of the escophagus to the left in the direction of the sionanch. A second important point is the first that if an amount of ood sufficient to overfull the escophagus is given the food sufficient to overfull the escophagus is given the less than the control of the complex of the control of constitution or snamm

The great majority of diverticula are found according to Funk in the upper portion of the esophagus

In the examination of the exophagus the following points should be borne in mind

1 The \ray study of the ecophagus shoul!
precede the u e of the ecophaguscope and the
bougie

2 \ careful study of the coophagus shoul l be made in e ery case of sul sternal pain

3 Examination of the crophagus hould never be regar led as complete until a capsule filled with bismuth will pass readily without stopping

I HIL C ROBITS IEL M D

Clerf L H Atresia of the Esophagus Su g Cl :

Cleri emphasizes the dangers of period esophing gosopic boug nage in stress of the esophagis especially ben the closure is complete to ear enultiple structures an when pouching has taken place. He call attention also to the ease with which retogrande bougning may be accomplished and the value of the Tocker bougte in the treatment of attests. WHITH E. STREAKEN M.D.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Vallack A C A Method of Operating upon Strangulated Umbilical Hernia Wed J 415 1 al 924 1 3 2

The author has devised a procedure to facilitate speed and minimize the dangers of operations for

strangulated umbil cal hernia

An elliptical incision is made around the herma. It has as it singer the incision has upon the side of the herma. Enough skin is left to permit proper clearing which tension and a sufficient number of clearing which tension is a sufficient number of the permit reflection of the skin from the fasts. The fasts is sleft buryer for some distance in ever unfection. An incision is then made through the fasts and performent around the neck of the fast and the sac is detached from the abdominal wall in such a sufficient of the sac and the sac is detached from the abdominal wall in such a summer as to I as it attached only to the viscera than affected a 3p protected with foreign the same of the fast of the sac is the same of the sac in the same of t

tents are examined. If the bowel can be replaced this is don but if it is againgenous the lived ed portion is removed and the continuity of the interior re-established by a lateral anastomosi. If possible the fascia is rejarred by overlapping it from above don mard otherwise from side to side. This operation was performed on a worm in who had

strangulation of an enormous entril hernis for two days. The sac contained strangulated large intestine unstrangulated small intestine the uterus and adneva. A previous vent ofixation had permitted the per toneum to drag the uterus with it into the hernis. The patient made a compile terco ery

The author describes a simple method of deter mining the v ability of the intestine. If there is any doubt as to whether the intestine should be resected or replaced he mikes in incision into the muscular

coat. It the intest u e bl eds properly be replaces u: He describes al o an ingenious method of control lag regurgitant comiting. When the patient is full anisth it e de introd ces a stomach tube into the stomach and faste s it to the check with a toneclamp. The ind if the tube hangs over a tub. When the bowel c intents are regurgitated into the stomach they are siphoned off. If it is has used this method fo a number of ye is but states that be did not originate it. If I at. 1 M Canr M bb

GASTRO INTESTINAL TRACT M nod G Hæmatemesi Without Lesions

B : M 7 9 4 658

In this article are reported thee cases of so called ga trost xis in which careful sea ch at ope at on failed to reveal a les on which might b responsible for the bleeding

Of the various theories as to the ethology the most important are those which ascribe the cond tion to disturbant of the gratten nerve supply associated appendictures cholerestitis hepatism or gas troptosis. This type of hemorrhage is rarely latal as a rule the treatment bould consist in rest. Operation should be reserved for cases in which a definite leasant elementated by the roentigen ray.

VERNE G BURDEN MD

Burk W. The Surgical Treatment of G stric and Duodenal Ulcer (Zur pe ti e Beba dlu g d s Magen und Zwoelling tda mgesch u rs) Ze tr 10 if G h. 1023 1 1560

In spite of the numerous articles that has been written on gastre and duo-fearl uler: the close of these lessons as still unexplained. We have set of determine also (1) the most destrable type of operation for uler; of the stomath and duods we (3) the ethology of peptic uler of the spiumum a d ats relationship to gastric operations and (1) the offer freshles of the various operations and (2) the color of the various operations are considered to the color of the spiumum and the various operations and (2) the color of the spite of the various operative procedures.

The author reports the results of operation in thirty six cases of duodenal ulcer and ros cases of gastric ulcer. He draws the following conclusions:

Callous ulcer of the stomach and duodenum should be reserted, whenever possible according to

the Billroth II method

2 If resection is impossible in cases of duode al ulcer exclusion of the pilorus and resection of the pyloric port on of the stomach should be do e 3 In cases of simple ulcer of the pylorus pyloric

resection is indicated
4 The von Liselsberg method of excluding the

p) lorus should be abandoned

5 Gastr enterostomy is indicated only for simple ulcer of the body of the stomach unusually non resectable ulcer of the lesser curvature and possibly the cases of very obese persons or the c with heart disease

6 Pept culcer of the jejunum should be treat do removing the ulcer bearing area of the small intestine and the adjacent portion of the stone of if vel sion of the pylorus was done at the fit operation the remaining potion of the pylorus a little primary ulcer m at also be removed.

DENCES (Z)

Galpern J The Results of Operations on the Stomach to Ulcer and Othe C nditi ns 1908 1922 (Res lt t der M g pe t nweg Ulcu uw 1908 o) A h f hl Ch o23 cxx 8/

The author reviews a series of 508 cases a cluding 108 c ses of pylonic ulcer 215 of e trapyl no ul er and ninety three of duodenal ulcer Peptic ulcer of the jejunum occurred five times The relative fre quency of gastric ulcer to duodenal ulcer was 4 I

Operation was performed only in cases that were refractory to internal treatment Cases of old callous ulcers stenosis and perforation were of course operated on at once. There were 480 posterior gastro enterostomies with a short loop Of the twents four deathy only eighteen (3.75 per cent) could be attributed to the operation. In several could be attributed to the operation in a west force in which suiture and drinnings were used were (stal. Of the nine in hich a imulianeous ansatomous was done only three ere fatal.

Of fifty one operations for ulcer at the pyloru the final results were excellent in thirty three and good in six. Therefore good results, tre obtained

in 75 per cent of the cases

There were 115 operations for extrapyloric ulce The results were excellent in seventy four cases and the condition was considerably impro ed in twelve Therefore a good result was obtained in 74 per

In fifty two cases of operation f r duod nal ulcer the results were excellent in thirty six and good in six Therefore the results yere good in 87 per

cent

Poor results following a gastro ent ro toms are to be attributed to the formation of a new ulcer Gal pern resects only when he suspects care some and when a gastro enterostomy has prove du suscessful. In the entire series of ca es he performed a resection only thirty two times Of fifteen patients subjected to this operation for peptic ulcer of the mit life from the control of th

B R M1 \ (Z)

Sh ilow T A Gast ostorny An Impro ed T ch nique S & Ci \ Am 19 4 114

Shallow reports a series of eights cases of gastros tomy studied by him on DaCosta's service at the

Jefferson Hosp tal Philadelphia

The advantages and disady intages of the various operations for gastrostomy are discussed. For an ideal result the fistulous trace must be at right angles to the abdominal all in order that the opening in the stomach will correspond to the opening in the brodominal will The opening must be large enough to permit etrograde esophagocopy within three recks without causing harmorthage or leakage into the pertoneal cavity. The tract must be kept patent by the retention tube. Closure should take place without the necessity for a secondary operation.

The author's operation combines the desirable leatures of the kader and Senn operations Operation should be performed early before the patient becomes greatly weakened

MILLIAM F SHACKLETO MI D

Delore A. Michon L. and Pollosson E. Cicatri clal Obliteration of the Gastro Enterostomy Openings (De 1 bi teration cicatr cielle des hountes de gastroe té ponastomose). Ren d. chr. Par. 1021 xil. 70

The authors report nine cases in which the open ing made at gastro enterostomy became obliterated by a cicatricial process in the absence of neorlastic

or ulcetative change

It is generally assumed that the opening of a gastric enterostomy becomes obliterated when the pylorus becomes permeable but many secondary operations have shown that it may become closed before pyloric permeability is re-established

In the authors opinion the cause of certifical obliteration is to be found in the inflammators le sons invol ing all the strate of the stomach which are frequently found in the course of operation Viost important of these are the inflammator, is cause of the muscular tissue. The authors believe that the lessons producing cicatrical obliteration of a gastro enterostomy, and those producing peptic ulcer about the gastro enterostomy opening differ only in degree.

The symptoms of closure of a gastro enterostomy, opening generally appear about three months after the operation. This differentiates them from those of gastrojeunal ulcre which usually are not noted until after a period of years. In cases of cancer the symptoms are often mutaken for those of recurrence and spread of the neonlasm.

At a second laparotomy it is essential first to locate the site of the anastomotic opening. Some times this will be difficult or impossible. In such cases a retroolic or precolo anterior gazero enter ostomy with a large opening should be established when the old opening has been completely closed it is best to form a new transmesocolic posterior opening.

When the opening is found still in the process of obliteration the authors dissect out the stomach and intestine open the orifice at one side with the accessors make a slit about 50 cd cm in length in the gastrie wall and intestine and suture the stomach results of the still about 50 cd cm in length in the gastrie wall and intestine and suture the stomach credule is a simple factor there plants. This procedure is a simple factor there plants of This procedure is a simple factor there is not the preserves the permeable segment of the previous opening with the

Behrend M Variability of the Symptoms and Pathology of Acute Intestinal Obstruction S t C 1 m 1944 1 169

To illustrate the variability of the symptoms and

pathology of intestinal obstruction the author re

Case: was a case of volvulus of the intestine in a robust man 6, years of age who had had marked constitution for years and suffered a sudden attack of abdominal pain and vomiting. The day after the attack there was recession of the symptoms and on palpat on the abdomen seemed normal. The boards had moved and fatus had been passed. The

following day the abdomen again became tense there was no bowel movement and the pulse rate increased slightly. The history suggested carcinoma of the sigmoid diverticultus and volvulus a defin ted lurnosis was impossible

When the abdomen was opened the descending color was found completely tristed on itself and distended above and below the construction. On the insertion of a rectal tube beyond this point a large amount of flatus and facal matter was excelled.

The patient made a good recovery

In the second case reported the condition was thrombosis of the superior mesenteric artery. The patient was a woman 4x years of age who had suffered with asthma for eighteen years. She was admitted to the hospital complaining of pain this tention of the abdomen and intestinal stasss. There

was no vonuting Operation was performed under local anæsthesia four days after the beginning of the intestinal obstruction. The delay was due to the patient a poor struction. The delay was due to the patient a poor struction are struction and the delay was due to the patient and the observation of the construction of the askina. Throm conbarrasement caused by the askina. Throm conbartasement caused by the askina. Throm consist of the messenteric artery, and massive gangeree of the illum were found. Following the removal of 30 in of gut the continuity of the intestine was re-established by end to end anastomoss and the results of the continuity of the intestine was re-established by end to end anastomoss and the ound closed without drainage. The patient made

Case 3 was a case of diaphragmatic hernia with intestinal obstruction in a child 7 years old. Five months before the nationt was seen by the author he was operated upon for empyema complicating measles and two weeks previously he was seized with severe pain in the epigastric region. The condition improved after evacuation of the bo vels by means of a cathartic but a few lays later there was an attack of severe abdominal pain accompanied by the comiting of a material which at first was whit ish and later brown and green Operation was advised but the parents refused Phys cal examination revealed a scaphoid abdomen and m rked lack of muscle tone The diagnosis was made by means of the roentgen ray The portion of the stoma h which lay within the chest all showed six hour retention of banum

The first operation was performed under local amesthesia six days afte the p tents admiss on the hospital This disclosed that the stomach transverse colon and great omentum had been drawn through a crucial rent in the displacing median line. The colon and the stomach were brought dos n to their normal post on by traction on the get omentum and the rent in the d phragm.

After the operat on the vomiting ceased Convalescence was slow but uneventful for several days On the fifth dip vimiting recurred but was relied by gastric lavage.

At a second operat on performed because it was thought that a rece of the omentum might have

gone through the diaphragm an omental band was found wrapped around a portion of the ileum an! almost completely closing its lumen. The patient recovered

The fourth case was a case of acute intestinal obstruction due to a gall stone in the ileum. The patient a woman a \$\mathbb{E}\$ sears old had been ill for two days before the author was called in consultate a She complained of pain in the abdomen which was particularly intense in the right that forsa. A disk

nos so I stute append citts had been made
At operation which was performed immediately
under nifrous oxide-oxygen anasthesia a large
quantity of odollers find escaped. The appendix
showed chronic inflammation but its condition was
not sufficiently senious to account for the symptoms.
The stomach and gall blader were normal. The
intestime were examined because of the marked ditention of their walls. At about the center of he
identified in the state of the marked ditention of their walls. At about the senior of the
identified in the state of the mass proved in the
senior of the mass proved in the opposite
direction to the incision in the ileum and the abdo
men closed in the walls mande

Death occurred se eral hours later but was believed due to a heat stroke caused by the high temperature of the June night on which the opera

ton was performed

In the fifth case that of a newbo n infant there was congenital absence of the ileum Vomtuse
occurred immediately after buth The jobion n
was markedly distended Palpation was followed
by rigidity and constipation was very existence
to the control of the con

B noi t The Action f Spinal Anasthesia in the Course of Intestinal Obstruction (Della it ad i nesthe ach di u r rs d locci test nal) Lv ch 1924 xx 7

A 68 year-old woman operated upon eight yeas previously for a strangulated crural hernia on the right side experienced several mild attacks of in testinal obstruction and five days before her admis s on to the hospital developed complete intestinal obstruction As the marked distention of the ab domen contra i dicated explo atory laparotomy immed ate ereco tomy was advised 'Within a min ute after the inject on of the anasthet c between the third and fourth lambar vertebræ and the remo al of 10 c cm of cerebrospinal flu d a diar hone evacuation of faces and gas began and very acti e penstaltic e ntract ons were seen extending from the right iliac fossa along the ascending and transverse colon In a few minut a the abdomen was completely flat and soft Oper tion was there fore deferred

The following day after a period in which the general c notition remained good a median subumbilical laps of ones was die under loc lanas June 1018

thesia because of the recurrence of slight distention The small intestine showed markedly di tended and contracted segments Two omental bands con stricted the transverse colon without completely ob tructing it and at the site of the old strangulated berma were ten ion like tags drawing the transverse colon down These were released No other cause of obstruction was found. The exeum was fastene ! in a small that incis on on the right side because it was thought that the performance of a excostomy might be necessary later. The patient made a com plete recovery

A second ca e reported was that of a man with cancer of the 1 ft colon and complete ntestinal obstruction. As in the first case, pinal anaesthesia in a fer minutes caused evacuation of the intestines and operation was deferred until a more favorable

Cotte has observed violent peristaltic contractio is in more than 100 cases of spinal anaisthes a In cases of casarean section in which this type of angesthesia was used the uterus appeared to contract rapidly after the operation and there was little hamorrhage

Bonniot suggests that the influence of sp nal anasthesia may be explained by the assumption that it suppresses the causative intestinal spasm or dissociates the medullary and ganglionic centers of intestinal mo ement by paralyzing the sympathetic fibers at the joint where they emerge from the lum bar cord

As indications for its use Cotte mentions (1) c ses of postoperati e i testinal p alvsis associat ed with attenuated perito gal infe tions in which evacuation of faces and gas is difficult and fistul ization is considered and (2) cases in which the

format on of an artificial anus is considered If spinal anaesthes a is ineffectual operation is not retarded and if it is effective an emergency operation is rendered unnecessary

WALTER C BURKET M D

Peple W L Intus use pti n R port of an Unu u Case 1 g M M th 9 4 1 4

A white male child previously well a ope ated upon five days after the onset of typical symptoms of intussusception A sausag sh pcl tumor was felt in the left lower quadrant of the abdom n

At operation which was done under local an æsthes a the m ss as found to be an nt ssus cept on of the ileum into the cacum, the t ansvers and the descending colon. This was ed ced. Its start ng point was a small tumor about 3 in long which was attached to the inner wall of the leum about 2 ft above the leocæcal val e. This appea ed to be an inverted diverticulum with a lumen the size of a slate pencl At ts tp was a firm m s The tumor was exceed at its base and the open ng sutured t ansversely

The patient died f hock a few hou s l ter The mas at the tip of the divert culum proved to be pancteatic t s u ST LY J SE GE MID

Nitch C A R Cysti Pneumatosis of the Intes tinal Tract Br! J St g 1924 14

This article is based on two cases coming under the author's ob ervation. The full name of the rare pathological condition under discussion is pneu

matosis existendes intestini hominis Case r was that of a man aged 48 years who had suffered for fifteen years vith epigastric pain and belching following the ingestion of food which was releved only by somiting 1 physician made a diagnosis of pylonic steno : secondary to ulcer The patient refused operation but consented to daily gastric lavag and performed it himself for six years The la age gave him relief but he lo t considerable weight. He entered the hospital for operation in

Laparotomy revealed extreme pyloric stenosis A posterior no loop gastrojejuno toma was done. A coil of mall bowel studied with gravi h white elevations presented in the wound. The elevations proved to b multilocular subperitoneal cysts vary ing in size from that of a pin to that of a pea. When one of these cysts was punctured the contents were found to be gaseous. The entire small bowel except the first 12 in of the jejunum and the distal 12 in of the ileum was affected. The gas cv ts were present also in the transverse mesocolon at the base of the append ces epiploica Recovery was uneventful and the patient rapidly regained his lo t weight

CASE 2 was that of 3 1 oman 40 years of age Twelve days b fore she consulted the author the patient had been seized with acute colicky pains in the right il ac fossa. The pain recurred a eek later There was slight constipation but no comiting Physical examination revealed a tender clongated swelling in the right iliac fossa which stiffened and softened e ery fer minutes and suggested an intu susception The temperature and pulse were normal

At operation the wall of the execum and ascend ng colon were found inflamed thickened and crep stant on pres ure. In the surrounding connective tissue and in some of the append ces epiplo cæ were beads of gas The d stal ileum and the append v were not avolved. In the mesentery of the sleum were several c leified tuberculous glands. The d tall 6 in of the yeum ni the execum the ascending colon and one third of the transverse colon wer excised the lumen of the bo el being restored by lateral ileocolost my The patient made a rapid recovery and has rem med well to date

The specim n from the second case is no in the Museum of the Royal College of Surgeons Histo logical examination howed that the connective tissue and fat about the carcum and ascending colon contained a large number of gas bubbles The walls of the cacum were thickened throughout from sub mucous emphysema and the mucous membrane of the ascending col n was raised in promin at eleva tio s The elevations were so plominent and were int religitated so compactly that they blocked the lumen of the la ge bowel So ulcer as f und in the bowel to account f r the effus on of g s Therefore

the emphysema must be ascribed to an infection of the wall of the carcum by a gas producing bacillus However the presence of such an organism could not be demonstrated in the exudate or cells. It is probable that a subacute infection involved the sub mucosa and muscularis

The author has been able to find only eights fi e cases of cystic pneumatosis reported in the literature The earliest description was made in 1737 In about two thirds of the cases the condition was found at operation An analogous condition termed testinal emphysema occurs in swine chiefly about the rectum The author believes this to be of hac

terral origin

Of the eighty fi e cases of cystic pneumatos s re ported in the literature the lesion was found at autopsy in twenty nine and in nine of these (a) per cent) death was due to complications of ulcer of the stomach or duodenum In thirty four (6, per cent) of the fifty ty o cases in which the condition was discovered at lanarotomy an ulcer was found. Accor lingly in so per cent of all reported cases the condition was associated with duodenal or gastric ulcer In 83 per cent of these there was obstruction Other less common co-existing lesions are cancer tuberculous enteritis and gastro-enteritis. There fore it seems clear that some form of obstruction of the gastro intestinal canal accounts for a large num ber of cases The condition occurs about three times as frequently in males as in females and is most common in the fourth and fifth decades

The cysts are usually situated in the distal ileum and the large bo el They may be diffusely dis seminated or collected in small isolated masses. Bac terna have rarely been seen in them or cultivated from them Postmortem cultures have sho n thief ly the bacillus coli or bacillus aerogenes

The theories which ascribe the condition to bac terral action or mechanic I forces seem to expla n its nathology best. It is probable that the air is force i into the intestinal walls through an abras on in the mucosa and then enters the netwo k of lymphatics and travels along the intestine Cyst form tion is due directly to an obliterati g endolymphangeitis The association of cystic pneumatosis with an ulcer in so per cent of the cases and with an obstructive lesion in 70 per cent seems to prove that the mechan ical theory is correct

The symptoms are usually those due to the ulcer r as ociated intestinal of struction. The treatment con 1sts in attention t the ulcer or rel of the obstruction. It is perh ps best not to d turb the cysts certainly it s unw se to puncture them In some cases in which the obstruct on a due dire the to the cysts resection of the portion of a testine invol ed becomes necessary as in the author's ase The author's first cas wa due probably to mechan ical factors and the second to micro-organisms

The art cle is supplemented by a tabulate i list of the eighty file r corded cases of cystic pneum tosis and an exte we bibliogr phy The illu trations a e JOHN W NIZW MD very good

Brown P W Tuberculomata of the Bowel S , 1 Am 1024 360

This article is based upon a review of the thirty two cases of hyperplastic tuberculous of the boat (tuberculomata) observed at the Mayo Cha c dur ing the past five years

Tuberculomata of the 1 itestinal tract are localized manifestations of tuberculo s and by virtue of their localization present a difficult problem in the

d fferential cognosis Distinguishing tuberculoma from carcinoma are the average age at which the symptoms appear and their average duration but a definite diagnosis i ometimes impossible particularly in the cases of

older persons Intestinal tuberculosis may be primary. Of th sases reviewed to her cent appeared to be of this type. As the lesions may arise from infection con veved by tuberculous meat and milk greater efforts to exterminate boying tuberculosis are necessary licoca al tuberculomata may be easily removed by operative procedures When the le ions are present also in the small bowel or when they are confined to the small bowel the chance for cure by surgical

measures is much less favorable The adva ability of exploration often depends on the presence and extent of tuberculosis elsewhere In certain cases surgery becomes urgent because of obstruction

In two cases of tuberculomata of the small bowel neo arsphenamin was tried. In one apparently complete recovery resulted but in the other there was no appreciable change in the condition

Craig W Mck. The Lymph Glands in Ca cinoma of the Small Intestines. A Review of the C n dition of the Glands 1: Carcinoma of the Gastro Intestinal Tract S rg Gy r & Ob! 023 II VI 470

During the last fifteen years operation has bee performed at the Mayo Climic in 4684 cases of gastro intestinal carcinoma and the condition has been verified pathologically Thirty s x of the carcinomata were in the small intestine. The incidence of regional glandular involvement was inves t gated and compared with that nother portio sol

the tract The invest gation of the glandular in ol ement of the rema nder of the alimentary tract showed that in the stomach the 1 c dence was 52 per cent in the large intestine 37 per cent in the cacum 32 per cent and in the ectum 47 per cent as contrasted with an incidence of 66 per cent in the small intestine Cases of carcinoma occurring in the duodenum jejunum and ileum were conside ed sep rately from the stand por tof operability and progno is as evid need by the growth and the amount of glandular involvem at

There were s x cases of primary ca c noma of the duodenum The glands we e studied in four hich showed m rked involvement. One of these cases a ca e of malign nt papilloma was that of a patient who h d two ye safter perat on

In eleven of twelve cases of primary carcinoma in the jepunum carcinoma was found in the regional glands. In the ca e of an inoperable growth which had invol ed all of the glands a pullative ansate moss was made around the growth the patient lived two years. In the cases in which resection was performed the operative mortality was his

Eight cases of primary carcinoma in the ileum lowered the mortality and decreased the incidence of glandular involvement since only two cases shoved carcinomatous glands and the maximal

survival was fourteen vears

There were also ten ca cs which vere listed as moderum ratio or secondary to carrinoms of other viscers. Only two cases are of special interest. One was that of a woman who had had noperable epithel ome of the cervix and later developed is mip-to-defined by the control of the cervix and later developed is mip-to-defined by the control of diagnoss showed the microscopic picture of epithelioma. The other ca e allo showed the symmotive month of the control of the control of the control of the control of the control of the control of the regional glands. A glaind removed for diagnoss should typical micro-epithel oma. The history the not of symmotims was cliented.

Carenoma of the small nessure may be of pm any or secondary norg. On both types may eause obstruction In obsernent of the regional lymph glands was higher than elevater in the glands was higher than elevater in the glands was higher than elevater in the grands interest occurring in 66 per cent of the cases. From the standpoint of the progrous cases From the standpoint of the progrous nance; it is all on the region most commonly involved democarenoma was present in all ca es of primary management. The pos blint of a secondary nor plasm must be ruled out by microsc pre-examination of the grand of the progrous of the

Akerlund A The Roentg n Diagno is of Duodenal Uleer with Regard to the Local Direct Roent gen Signs (1) Roe tige d gnost k des Uleu duoden mit H ins ht if die lk l d kt Roentg vmpt m) M u d G g b d M d Ch o 3 (

For the examination of dispotant ulcer the luolenal bulbus must be filled as completely as possible and the opaque metrial hould be retained in the lubur as long a possible the bulb as must be X rated from amous directions and in various postions of the body of everal exposures must be mide from the most favorable angles of projection

Three 18 by a m plates will suffice for twelfer petures. Good filing 1 obt ned by the administration of a barnum mixture of cr amy, consistency followed immediately by forceful manu leapness on the contents of the stomach. The pat ent may be on his right side or on his adome or in a posit on m dway between these two. The lower portion of the duodenum may be blocked by means of a trus

gentle air c mpre on in the region of the

001003

The erect position is the best. Often it is necessar for the patient to rotate the trunk to the left. In the case of lat persons good pictures of the duodenal bulbus may be obtained in the lateral por itom with the sinistrodextral projection. Every patient hould be examined with the fluoroscope in the erect ab dominal dorsal and various oblique positions. Yourk and convenient method of obtaining on the soppie carrent is to take four pictures in immediate sequence on one plate. The author makes four exposures of 0.4 to 0.5 crond at intervals of one half minute.

The d agnosis of ulcer is base! chiefly on the deformities caused by the lesson. Even open ulcer that has penetrate! the deeper lavers of the wall produces an alteration in the shape of the shado.

cast by the contrast meal filing the duodenal bulbus. A regative diagnosis shoul libe made only after a careful study of reentgen pictures of the bulbus in various projections and several eries. The following deformities warrant a diagnosis of duodenal uler.

1 An ulcer nuche cause I by the ulcer crater. This is found in about 60 per cent of ca es. A negative finding from external inspection and palpation of the duodenum on Iapratotomy is no proof of the alsence of an ulcer under use hochen the duodenul highest part of the present of the inspection of the present of the p

2 A bulbus defect such as local contraction and narrowing of the shadow. This is most common and pronouncid on the lateral contour of the bulbus where it is mostly a spirstic condition and varies in form. On the side of the lesser curvature it is less did not more stable and usuall due to an organic cause.

3 Retraction of the bulbus which consists in flattening in a longitudinal direction and shortening of the normally bulging contour. This is almost always located on the medial sile of the bulbus and may be caused by spastic or organic conditions. The retraction may cause an excentric and wide open pylatic lumen.

4 The ulce diverticulum a pouch shaped bulg ing in the duodenal wall near the point at which ulcer is most common

Pers sting contrast flecks re not a certain and ca tion of u'c r as they may arise from other causes Other alterations in the shape of the shado of the

cap are of secondary importance

Pathognomonic of duodenil ulcer are a niche in the bulbus a spast c defect on its lateral contour and retract on n its medial contour. An excentr c wide-of en pyl ru an asymmetrical bulbus a marked diverticulum at the base of the bulbus and an insolated constant marked bulbus defect sugcest ulcer.

Enlargement of the gall bladder often causes a wide impress on on the bulbus and percholocystical adhesions occu sonally cause bulbus defects. New gro with such as papillomata and polyin on the bulbus generally give typical pictures in the form of rounded but sometimes ragged filling defects in a bulbus otherwise without deformity.

From the study of the bulbus as describe! the author mad a correct roentigen diagnosis of tho denal ulcer in 60 per cent of his cases a correct probable diagnosis in 20 per cent and an incorrect diagno is in 56 per cent. Heller (22)

Baggio G The Effect of Resection of the Pyloru on the Formation of Jejunal Ulcer (L. fü nza d lla zo d lla pars pl c lla podu o dell'ulce a dgi nale) Anul d / 1932

In experiments on dogs it as found the exclusion of the pylorus was followed constantly by a peptic ulcer in the descending loop of the gristro enteric anastomos s. Three of the animals died within the first fie edgys following separation of the sutures. Four survived for from eight to suty days but all died ultimately with true peptic ultimately.

Baggo concluded that the ulcers were due to the ction of the gastric juice coming from the excluded stomach. To verify this hypothesis he conducted a series of expe iments in which he resected the pyloric part if the stomach. Th tten of twenty two dogs died within the first six days but n no case was the e a peptic ulcer or separation of the sutures.

V A BRENNAN

The fix to devie and practice pylone exclu ion ... Kummer Since h aday the procedure has been vanously modified the pylorus ow being excluded by section by invagination and by ligatin Sil an advocates extr in ng accord ng to be method of one of the control of the control of sequeless that space to the control of sequeless that space to the control of sequeless that space to the control of Geloriam and as that symptoms tollowing pyloric Geloriam and as that symptoms tollowing pyloric sequeless that symptoms tollowing pyloric for the control of the control of sequeless that symptoms tollowing pyloric for the control of sequeless that symptoms tollowing pyloric for the control of sequeless that symptoms tollowing pyloric for the control of sequeless that seq

e clusion a c a late devel pment. Silvan does not agree with him. It as Keppted as unset the formation of a jejunal ulcer 1 due to the effe 1 fluence of the preplicion; ego nor the acid secreted in the fundu of the stomach the 1 son will be formed a dist 3 pmptoms will be in miested own after operation. It is not prob ble the a jupini effect of the formed of the company of the stomach of the s

Acc rd g to B zeal pylotic clusi n is indicat d in those case of du d nat I er in which a

simple gastro enterostomy is not sufficient and complete resection of the pylorus is impract cal. In the opinion of Borezeki Keppich and others plear of the jejunum does not follow pylonic exclusi n Mordl states that none of the recognized types of gastro enterostomy will prevent subsequent je; nal ulceration as the latter is invariably secondary to gastric or duodenal ulcer. Even the most radical operation such as complete resection will not one vent involvement of the sejunum in all cases Je nun'l ulcer may develop after any type of gastro enterostomy provided free hydrochloric acid pe sists Gastro-enterostomy performed in case pyloric stenosis like gastro enterostomy combined with pyloric resection may be I llowed by pept c ulcer because non neutralized acid comes into co tact with a roucosa unprepared I rits actio. There fore the danger of ulcer is greater in cases of hyper chlorhydria than in cases of hypochlorhydria i normal acidity

The author advocates a n de poster or retrocole anastomosa. This mest not be made very close to the greater curvature as it is essential in the granter of the sessional of the granter of the sessional of the granter

Dudgeon L S and Mitchiner P II The Bac teriological and Pathological Examination of the V millorm Appendic In the First Thirty Hours of Actic Appendictits With Speci I Refe ence to the Presence of F is in the Wall of the Appendix and Lymphold Ties e Bril J S I 1941 i 69

I wents five appendices were examined by the uthors. The blood was examiled and in el en of thritteen cases in which the find go vere po live the bacteria were cultivated on bile med um. Staph vlococcus affus was obt ined in t. el e case and staph vlococcus ureus in three.

The urine was ex mined bacteriologically is giften case. I three cases of acute perstor its the bacillus c I was cultivated f om it

The chef ae live o gam ms isolated from the interior of the appendix in the frat thirty hours of appendix is were building col and streptor or a Twenty five ac te cas a were investigated. The a aerobe battlius which was prient in four of the but the o gamism failed to rive 1 is pathogeneity.

B cilius col 1 as not obt 1 ed by blood culture and streptococci w re found in only one c se Serolog c 1 tests made with anti-colon sers and with the soluted strains of bacillus 1 h w e positive in half of the ca es

In the contents of the append x in one of the acute cases i te tinal p rasites were found. C n ct i i d n some axes onsisted of fat s 15 and egetable m tter Fat we edemo strated also in th lume the m cou i m g the gl d e lb the

lymph nodes of the appendix wall and the lymph nodes draining the appendix in the quescent ases In many of the acute ca es the inflammators

process in the sul mucous and mu cular coats as than the appearance of the much more inten mucosa sugge ted and in some of the acute cases evidence of chronic appendicitis wa demon trated in the vall of the appendix although no previou hi tory of appendic tis v as obtained

In the chronic cases and in the acute cases with evidence of previous inflammation in the appendix vall the fibro is involved the muscular coat and the latter was extensively disorganized

HO ARD A MCKNIGHT M D

For the treatment of rectal cancer Savariaud ad ocates the use of the coccyperineal route with preservation of the sphincters and levator as superior to the abdommopermeal route. The stati tics I

his operations are summarized as follows

_	Ope to 1	6. Ih Rec	m	
N	Са	Ope	Res 1	Rmak
4	Can (ppa dte m	Pran I Pranco-bd m	Rec ry De b	
6	Cac f tr pe so i mpulta	P 1 th preserv so 1 pb rs 5	r ,	2 mr 12 ed
	Cac f pet	Prince bifm mal Pin 1 h proce to f nc rs	Rec	ect t
		P in I-abdom al h pres rv io phus, rs		, ",
_	Rec osugmond 1 nc	Abd mus i	Rec	Spi

The only death in the f urteen operations follo ed an urgent perineo abdom nal operation Savariaud reviews from the lit rature fifty two

t ses in which there vere fo ty seven recoveries and fi e death

The long survival in many cases demonstrates that pre ervation of the sphincte's does not pre I spo e to recurrence or rai e the mortal ty

Savariaud d aws the follo ing conclusion The g eat majo ity of rectal c neers may be removed 13 the coccyperineal operation

2 If the exploring finger cannot reach the upper limit of the cancer an exploratory laparotomy is undicated

Whether the approach 1 made by the lower route alone or by the combined route an effort hould be made to preserve the sphincters particul

larly if the tumor is situated high a The perineo abdominal operation with sacri fice of the sphincters is indicated only if the sphinc

ters are invaded by the cancer and the lesion extends very high When the cancer does not extend beyond the

point to hich the examining finger can be intro duced and the general condition is fair Hartmann's abdominal operation is indicated

11 I BR SVAS

LIVER GALL BLADDER PANCREAS AND SPLEEN

Wilkie D P D Jaundice in Its Surgical Aspects IIh J M Sc 19 4 97

Two types of jaundice in which surgery has a

legitimate place are 1 Hamolytic jaundice Splenectomy which is and cated for all acquired forms constitutes one of

the triumphs of surgery 2 Obstructive jaundice Many forms may be

rebeved by surpery In cases of gall stone in the common duct there

is often a decided loss of weight but sometimes no hi tory of colic The general appearance of the jaundice give

some indication as to its type Hæmorrhage is particularly dangerous in jaun

di e Another danger is failure of liver function Three pre-operative measures that have been found of alue in the prevention of hamorrhage are

The intravenou injection of 5 c cm of a ro per cent calcium chloride solution on three successive days

2 The intramuscular injection of 30 ccm of 30 per cent sodium citrate shortly before the opera

Blood transfusion

At operation trauma must be reduced to the minimum and all visible bleeding points ligated

White bile is due to the damming back of the fluid secreted by the ducts by an obstruction in the common duct It can be removed by draining to the exterior If in a deeply jaundiced patient the gall bladder is found full of a clear fluid an exam na tion should be made to determine whether the cystic duct is patent

Successful surgery of obstructive jaund ce te quires

et Careful prel minary preparation to prevent postoperative hamorrhage and cholamia

2 Rapidity of operation with min mal trauma and and thetic

3 A two stage operation when extensive plastic work a neces ary

legitimate risk

4 Careful after treatment with the administration of large quantiti s of fluid and glucose and in

desperate cases blood transfusion When these precautions are taken operation is a

Judd E 5 Problems Encountered in the Treat ment of Disease of the Billary Tract If e is M d 1924 W 61

M RCUS II HOBURT M D

During the last few years out conception of the source of infects n of the gall bladder and the manner of its distribution t the adjoining tissues has great ly changed Inflammation of the li er and rob ably also of the pancreas in association with infiction of the gall bladder may account for the persistence of symptoms in some cases or for their eccurrence after remov I of the gall blaller. This changing conception of the pathology of the gall I ladder does not change our plan of surgical treatment it still suggests that the procedure of cloice is cholecystec toms Usually the chaical symptoms of gall bla lir disease are definite and distinct permitting a mattine diagnosis

Occasionally with obscure symrt ms of troubl in the upper right quadrant of the abdomen there is trouble in the biliary tract but it is not yet recogni at le as in early ca es of hepatitis in which the gall bladder is only slightly involved or in early

cases of primary pancreatitis
Since Ju 11 has been making careful observations on the condition of the liver and pancreas when operating for di case of the gall bladder he i recognizing changes that are often associated with cholecystitis which formerly were not interpreted He has observed that inflammation in the gall I ladd r r biliary tract may exh bit I tile if any gross evidence of its presence. In some cases it may be necessary to open the gall bladder an I examine an excised spec men in order to determine the nature of the condition Larious factors which aid in lead ing to a froner conclusion reparding these cases include (1) the ease with which the gall bladder may be compressed (2) the thickness of gall bladder all (a) the character of the bile and (4) the amount of fat deposit in the wall as in licating a chronic in tlammatory process

The results of operation for inflammation in the biliary tract are as a rule satisfactory Following cholecystectomy the removal of stones from the common duct and drainage of the biliary tract the ati nt returns to a normal state of health in a short time with very slight prospect of further trouble LIBERT | SCHOLL M D

Martin W Recent Contro ersial Ovestions in Gall Bladder Surg'ty Ann S :

There h we been no reports of serious interference with function or loss of nutration follo ing the remo at of the g ll bladder although thousands of cholocystectomies have been performed during the I st forty yea s I or a number of years observations

have been recorded which seem to shiw aid might on in the acid reaction of the gastric contents after the removal of the gall bladder or after morbid changes which destroy its function as a bile re error and cases have been reported in which there was a slight transitory diarrhea with the passage of several stools made up entirely of bile. Ho ever the power of adaptation possessed by the body seems to mask or compensate for changes in function caused by the operation and the po toperative disturbances are apparently not due to chan es in function due to the absence of the gall bladder

The author has found that \$4 per cent of pati nts sul jecte I to cholecy steat my are free from all symp toms after the operation. Of the 16 per cent with s mptoms more than half complain of en rastric pain and discomfort in the ne ghborhood of the scar The p in vit es from slight to marked discomfort and at times is ecompanied I v a feel ag of listen tion Not infrequently the e are symptoms such as distention inability to est certain foods nauses ni vomiting which are so similar to the symptoms characterists of gall bladder it sease that it is difficult to assign them to a cause other than infec-

tion of the galf blad fer wall

The removal or drainage of a slightly infe ted gall Hadder is sometimes followed by extent eadhesions fixing the tivlorus or the duodenum to the under surface of the liver and causing sympt ms of inter ference ith the function of these organs. No rela tion bet een the seventy of the lesson in the gall blad ler and these pastric symptoms has been es tablished nor has closure of the abdomen without dramage prevented their development

There is considerable e adence the t now and again bile leaks from the exstit d et even after the duct has been carefully isolated and I gated. It is gener ally believed that there are more adhesions after drainage than after removal of the gall bladder

In 11 percent of the cases with postoperative symptoms there have been attacks of jound ce vomiting an I signs of intermittent inf cti n nd in 2 per cent of the cases in which a chol castectomy was done there is evidence of a terference with the flow of bile

through the common duct

The author believes that the re noval of the gall bladder is not ju t field by slight lesion of its wall causing symptoms of indigestion and that it has not yet been proved that the majority of infections of the wall of the gall bladder caus ng symptoms represent a direct extension from an inflamed liver thro gh the Is mphatics or the t bacteria e te the portal circula tion from an obliterated appendix in suffic ent num bers to produce a hepatitis recognizable cl nically

In a very large percentage of cases of choice stat s cholelithi sis mas be considered an important factor determining the initial I dgement the persistence

and the transference of the infection

In cases of gall stones and well m rked lesions of the gall bladder wall uncomplicated by lesions of the common duct cholecy stectomy a associated with a low mortality and gives excellent results

There is little clinical or autops; evidence of the association of persistent hepatitis cirrhosis or pan creatitis when the disease is confined to the gall bladder wall

Common duct stones choledochitis and cholan gettis are late lesions with a high mortality. Opera tion should therefore be performed before these conditions develop. Howard & McKright M.D.

Speese J and klein T The Use of lietin in the I ostoperative Treatment of Acute Hæmor rhagic Pancreatitis S g Cl \ Am 19 4

The authors report a case of acute harmorrhagic pancreatite operated upon four days after the onset of symptoms in which the use of leftin was apparent ly very beneficial in re-establishing the carbohy drate tolerance and tiding the patient over a serious post operative period

Surge Lai M D

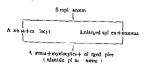
Ramsay G W St C Anæmia w th Enlarged Spleni in Infancy and Childhood Infantile Splenic Anæmia B i J Child D s 19 4

Anama with enlargement of the spleen in in lancy and childhood has been regarded as (1) a distinct disease entity (2) an aleukemic stage of true leukemia (3) a condition midwa between simple anæmia and leukemia (4) a transition stage between pernicious anæmia and elukemia and (5) a piniary disorder of the bone marrow due to rikers.

- The clin cal features are summarized as follo s

 The condition does not develop after the fourth
 year of lif
- 2 With anem a the blood shows degenerate and embryonic red cells
 - 3 My elocytes are present n the peripheral blood 4 The spleen is enlarged
- A number of toxic processes may give rise to the condition. Rickets although not the actual cause may predispo e to it. Cases showing anxemia de generating and embryonic forms of red cells and enlargement of the spleen but no myelocytes may be classified in the same groun.

The possible sequences may be represented graphically thus



The author concludes that infantile splence anamia is not a disease entity but a form of simple secondary anamia. Morris H. Mais, M.D.

MISCELLANFOUS

Hutchison R Fairbairn J S Coilier J and Others Special Discussion on Chronic Abdom inal Pain in Nervous Women Proc Roy Soc VI d Lond 1024 2 7 31

HUTCHISON states that the condition under discussion is difficult to define exactly but is characterized by abdominal aches and pains in dyseptic consultated unmarized women who as a rule are mentally, depressed. He discusses the responsibility of proceed causes hysteria and a subconscious de of procedure and a subconscious de the construction of the construction of the construction of the mental state and the treatment particularly ductless gland treatment and psychotheram.

FARBARN adds to the groups of subjects children married wome and others with families but little income and considerable worry. In yomen the faulure of reproduction may have a far reaching effect. Onetological conditions are often present little of the control of the women complianting of chronic about the control of the control of the women compliance of the control of the cont

The pexy operations are of little value Fair bairn believes that in the course of time coloperv will be abandoned The position of the uterus may have little bearing on the general condition

The best treatment is a change of environment and restoration of the woman s confidence in her body. In the early stages of the war women with this condition disappeared from the go necologist's office be cause they had other things to occupy their minds

Coutter dwides women with capter abdominal aches and pains into (1) those with an insane delusion (3) those with an insane delusion (3) those with an insane delusion (3) those with a true organe disease. As the majority he believe is belong to the last class the majority he believe is belong to the last class the majority he believe is belong to the last class and an he permal have other signata of hysteria and an he premal have other signata of hysteria and an he premal have other signata of hysteria dan draw bereath and the wens in her phay na. When he habit was discovered as the desired and recovered as the desired and recovered as the desired and recovered as the desired and recovered.

In the other groups a physical defect is very apt to be the basis of the emotional instability

Miller states that besides the cases due to anatomical lessons there are those due to physical mal adjustment lessons there are those due to physical mal adjustment to the amyonine group of patients react will ten temporarily to rest regulation of the duet and general tenne that may suffer a relapse Many of them ten operated upon without success. The calcium tendent of Viner and Groves and the use of parathydid may be of some value. Wilder has tried admini extract for patients with vasotional but the results were poor. The simpatheticotome patients can be reached by mental treatment only

Springs reports that of 988 women examined eighty two complained of nerrousness and abdom anal pain if the pain is a defanite symptom there must be a true cause for it and this will be found sooner or later \text{\text{curssthema}} is a poor diagnosis

Auto into ication is usually due to a definite me chanical or infirmmatory cause. The obscure causes It to ere I in the eights to eases include I biliary tract di case renal calculus e riv resonhageal stric ture inflamed duodenal d verticulum intermittent volvulus blin I pouches formed by an intestinal anastomosis and pancreatitis Canecological can ditions are often rough blamed for trouble due to some other cause Colitis constipation or vis ceroptosi may be re ponsible. In a few cases of constipation excisi n of the inacti e portion of the large into tine 1 indicated. In the diagno is of malposition the \ ray is of great aid

CUIPIN says that from the psychonathological stan ito at there are two factors in the symptoms under di cuss on (1) bodily changes in luced by em to n and (2) the end sub creed by the symp toms \ continue | emotion | state induces changes in the abdominal viscera which involmotility and to ition I vin if it is imit saible to cure the mental disturbance it may be possible to

force the symptoms back

Haprifin states that hysterical pains are not necessarily imag nary. They usually have an organ ic basis Sexual factors are a common cause of historia II sterical jain may have as its basis a craving for s monthy. In su h cases the psychotherapeutist attempts to change the attitude of min I by psychologi al methods

Mitson suggests that the colon is often at fault and that its treatment with antiseptics etc may pro e of great b neft. Pain may be produced by the elastic pasm of the colon

Herent on concluded that the mental as well as the physical side must be treated. Also that in st me cases colopexy may be of value MARCIS IL HOBERT M D

Dayer J B Focal Infection Within the Abdom n I Mis + St 1 M 4

That foct of infection occurring in the tons is an I sinus s the teeth the prostate the deep urethra the seminal vessels and the fallop an tubes may lead to gen ral disturbances has long been recog nized To these foci the abdomin I surgeon adds the appendix the gall bladder and the bo el

Chronic appendicitis is the most common surgi al condition found in the abdomen The chief symptoms are periodic pain in the right il ac fossa and tenderness Cases with vi ceroptosis and nervous

instability a e usually not surg cal

The appen lix and gall bladder which are sacs with only one opening may be called the diverticula of th alimentary canal The tissues of the appendix closely resemble those of the tonsil Infection in the interstitial tissues of these organs is apt to persist

Chronic colitis and occasionally mu ous colitis may have their o igin in continued infe tion in the appendi or g ll bladder Chro ic pancreatitis also may be the result of an old chronic cholecystitis

Appendicitis a d cholecystitis may lead to car d ac dis Lichty b lieves that in append citis cardiae disea e is functional whil in cholecystitis a true my ocarditis may result. In such cases remo al of the appendix or gall blad fer is necessary to re

eve the cardiac condition

Cholecystitis and appendicitis may lead also t colitis synovitis and arthritis. The author recom mends a routine appendectomy and examination of the gall bladder in operations for pept c ulcer as he believes a chronically d sersed appendix is often the focus from which peptic ulcers arise

The bowel may act as a focus from which bacteria may enter the blood stream and form distant I's one Usually constinuation and stasts are best treated medically unless the cause is a kink or mechanical

lesion

In the differentiation of acute pyel tis f om appen dicitis or cholecystitis a careful unp lysis cystoscon c examination an 1 \ ray examinations should be made If then the diagnosis remains doubtful it is best to perform an appendectomy immediately under nitrous oxi le-oxy gen anasthesia

The fallonian tubes are often the source of tuber

culous peritonitis

In conclusion D aver urges that the same con s deration be gr en abdominal foci of infection as is g ven the visit le loci else here

I MES A IL MA OEN MID

Schumann E. A A Series of Cases Presenting Abdominal Tumors of Unusual Type Which Give Rise to Difficulties in Diagnosis S ; 1 fm 19 4 1 185

The first case reported was a case of desmoid of the lower abdominal wall on the left side The m as as regular in outline hard and dense but not no lular. It was adherent to the rectus fascia but strippe I easily from the external surface of the per toneum

In the second case the tumor was a bil teral sar coma of the o ary and in the third an enla ge! uterus containing a fetus acranius and a placenta

ith massi e infarction

Three cases were cases of labor follo ing a pre yous exsarean section. In the first the ind ation as persistent uterine inertia in the second central placenta pravia an l in the third contracted pelvis The author states that women who ha e been subected to execute section should always be de liver d in a hospital and should ente the hospit ! several days before the estimated date of delivery

MORRIS H. KAHN M D

Duval P and Quenu J Diaphragmatic Hernia on the Left Sid Without Splenic Meg colon Plicature and Diaphragmatic Fixation by th Tl oraco-Abd minal R ute (L ent t n de még col splén q i hragm tou g che dadi phagmep r il at bdom le) B il i m m Soc 9 4 1 78

The authors report a case of the curious condit on which was first lescribed by Petit in 1780 and has been variously termed idiopathic superclevation of the diaphragm relaxation of the diaphragm

day hragmatic insuff creacy and diaphragmatic eventration. Eventration of the diaphragm is an abnormal unlateral elevation of the diaphragmatic dome which permits ascent of the abdominal organs. The condition is rare. In 6.2 cases of diaphragmatic malformations. Eppinger found 653 diaphragmatic herius but only seventeen eventrations.

The author's case was that of a man 45 years of age who complained of crises of pain in the left hypo chondrium. Clinical examination revealed signs of pleurisy at the back pneumothorax in the front and sight displacement of the heart to the right.

The syndrome suggested thoracc ectopia of the abdominal viscera. This was verified on roentgeno logical examination which showed the left side of the disphragm elevated more than 10 cm above the right side and immobile. The disgnoss was dus phragmatic eventration with dolichosigmoid and a tendency toward megacolon.

The treatment consisted in plication of the dia phragm by the thoraco abdominal route Artificial pneumothorax had failed to change the position of the diaphragm. Three folds were taken. Subsequent roentgenograms showed the elevation of the diaphragm reduced by 8 cm and the heart in its normal position The patient is today in excellent

The author believes that in such cases operative interference is justified only when the condition causes respiratory cardiac or digestive disturbances

Of the seventeen cases of eventration reported in the literature only one was treated directly that reported by Lerche in 1922 Lerche performed a plication through a laparotomy incision and it was because of the excellence of his result that the authors adopted this procedure in their case. How ever the authors object to the use of the abdominal or thoracic route alone believing that it is necessary to examine both surfaces of the diaphragm in order to determine their relation to the lungs and parietal pleura as well as to the superelevated abdominal vi cera The viscera must be dislodged and lowered by the surgeon's assistant in order that the muscle will be relatively flaccid and easy to fold and suture Temporary paralysis of the diaphragm is not nec essary

The incis on extends along the sixth intercostal space and descends almost vertically on the right side of the abdomen to the umbilicus. It is 30 cm long 20 cm being on the thorax and 10 cm on the abdomen. No section or resection of a rib is done

II 4 BRENNAN

GYNECOLOGY

UTERUS

Begouln Statistics of Clinical Cures of Cancer of the Certix of the Uterus Obtained with Radium (Statist que de gué so cinque du cs rduc l'utena pri rdum) B ll et mém Soc 1 d ch d'h 2 19 4 1 14

Begouin has treated minety five cases of cancer of the uterine cervin with radium alone Sixty which have been under observation for a period of from one to five vears are divided into three groups according to the stage of the disease in which the patient was first seen. The results of treatment are summarized as follows

r In nine advanced cases with an extensive tumor and metastases or se ere cacheria there were no clinical cures

2 In thirty six inoperable cases with fixat on of the uterus but with only moderate extension of the cond tion there were twelve clinical cures (33 per cent)

3 In fifteen operable cases there were seven clinical cures (46 per cent)

In the last group there were none cases in which

In the last group there were nine cases in which it was doubtful whether operation was warr need of these only one was cured From this limited number of observations it

appears that rad um treatment so fin o value in the advanced stages of the disease but when given during the operable period leads to a cure in a h gh percentage of cases and offers much hope to patients to have an early carcinoma but are reindered in operable by cardiac renal pulmonary or other disease.

In the discussion of this paper Protest and Brootin pointed out that injury to the blade from the use of large doses of r dum is infrequent and usually of title importance. The rectum as gmoid colon however are often affected unfavor ably. In one cas laparotion, revealed a furnor with signoid suggesting a furrow that would be made with a cauter wad in another instance a likely made with a cauter wad in another instance a likely made in the promotion of the pelvic colon in the form of an inflamma tory tumor. Prometrix was not observed.

Rename called attention to the fact that if a recurrence is to develop it usually appears 1 thin a 1 ernod of a year. He reported that of thritten pa 1 ernod of a year. He reported that of thritten pa were hiving in 10 1 and twelve 1 e a 11 ve in 1920 all were hiving in 10 1 and twelve 1 e a 11 ve in 1920 all the techin que used consisted in one application of two separated by an interval of two months) of 8 mgm of 7 d um divided between four tubes 1 two intra uterine and two vaginal and screened with rubbe 2 mm of gold and 0.5 mm of platinum. The average duration to treatment was from two to tur days. Schmitz H The Clinical Schiffcance of Cl mical and S rum Analyses of the Blood of Uterine Cancer Carriers Subjected to Measured Radia tion Doses 4m J Ob 1 & Gy 10 4 V 4 to 10 Clinical Schiff Control of Control of Control

Radiation ackness a caused by the absorption of autolytic products from the degenerated areas of the tumor mass. This intoxication is an example of a non-specific reaction. After treatment with radium and the roentgen rays the sera of persons with carcinoma become carcinomaly in a sevidenced by the Freund hammer reaction.

The results of the chemical and serum examinations of the blood in cases of carronoms indicate that persons, with extensive and necrotic cancer tumors should be subjected to radiation therapy with great caution and that a fractional interval method should be employed to prevent severe radiation should be employed to prevent severe radiation of the control of the c

ADNEXAL AND PERIUTERINE CONDITIONS

Meaker S R Transuterine Insuffiati n of Gas in the In estigation and Treatment of Sterility B to M & S J 1924 exc 286

The author believes that in 15 per cent of the cases of sterility in women the cause is an abor mality of the tubes. A method that has pro ed of great vadue in determining the patienty of the tubes is transitienne insuffiction. If this test is positive—that is if presumperatoeneum can be produced but the transitienne route—it is conclusive evidence that it least one tube is patient. No positive information can be gained in rig. rd to bold tubes nor can it demonstrated that the challed publicular has been demonstrated that the challed publicular has been demonstrated that the challed publicular has been demonstrated that the challed publicular has been demonstrated that the challed publicular has been demonstrated that the challed publicular has been demonstrated to be a because the challed that the challed publicular has been defined to the challed to the challed the challed that the challed that the challed the challed that the challed the challed that the cha

Whether the test is to be checked by the \ray adopends somewhat upon the circumstances of the particular case. A post ive result is usually very by ous w thout the confirmatory evidence of rocal genog ams. As a rule the author employs the \ray only for subsequent tests; in doubtful ca es

When the \text{\text{Tay}} is to be employed a control plate should be made before the insuffaction Both this and the subsequent plate should be made with the patient in a post ton favorable for the passage of the intrapersioneal gas to the subchaphragmatic reg of

The author describes his techn que and a simplified apparatus for transutern e insuffiction. As the test is purely qualitative it is sufficient merely to estimate the quantity of gas used by the rate of

flow of the bubbles passing through the wash bottle Emphasis is placed on the importance of beginning the flow of gas very slowly in or 1 r to obviate uterine

the flow of gas very slowly in or 1 rto obviate uterine colic which can e difficult in forcing the gas through the interstitial part of the tubes. The rate of flow of the bubbles in the vash bottle should be at first one per secon 1 and one half minute should elapse before the pressure 1 allo ed to rise as high as 100 mm Hz.

In positi e ca.es ther is u ually a sharp drop from 60 to 100 mm down to from 20 to 50 mm. Other politice evidences are auscultatory 1gns and

ubjective symptoms

When the tubes are occluded the pressure rises steadily and regurgitation of the gas finally occurs through the certical canal. The pressure hould not be allowed to exceed 200 mm. I ressure maintained at that level for three munities ithout a spontan cous drop and without auguitatory signs or sub rective symmoms proves the test negative.

A single negative test should not be accepted as final evidence of permanent occlusion of the tubes. The author ad ises against laparotomy until six careful insufflations have proved negative.

The value of transuterine insuffiat on as a thera peutic method in sterlity has been d initially established. Its possibilities are e-pecially great when the gas passes through with some d fficulty. It is to be recommended also in the after treatment of cases in which saloungostomy has been done

The incidence of ectopic pregnancy follo ing transuterine insufflation has yet to be determined

C FISKE TO ES M D

Schick! G May the Corpus Luteum Be the Source of a Large Intraperitoncal Hermor rhage? (Le ps jau peut let els sou ed hem rhagi int apent néale bo d t) G 1 b 1 1024 0 c

The author reports three ca es in which a severe intraperitoneal hamorrhage followed rupture of the

corpus luteum

The first case has that of a para is 31 years of a who had an attack of se ere pain in the lower addonen which soon ceased but recurred after three days caus ng her to faint. Fire d 53 start she was admitted to the hospital with all the clas ucal agns of intrapertioneal harmorthage. At laparot only a large quantity of blood was found in the admitted that the was admitted to the command the felf output that the class ucal that the class used to the command the case of the cavity of the corpus luttum, as smooth in crostopic examination she edit to be Ined with the neith.

The second case as that of a para in 40 years of age. Meastruation h d been normal with the exception of the last few periods which were s' days late. A sudden attack of syncope was follo ed by rapidly develoging anoma. Three days after this attack the pattent was taken to the hospital and operated upon immediately. O' perior or revealed

a large corpus luteum containing a small amount of reddish flui i and presenting a tear from 7 to 8 mm in length. The internal laver sho eci evidence of infiltration by red blood cell. and corpus luteum rells. There were no stops of presentacy.

The third case was that of a 45 year-old para in with plenomegaly. The patient was admitted to the ho putal because of a los of blood for eight days between her menstrual perio is. On the day when her last menstrual period was expected she hal an attack of rain in the lo er part of the abdomen and nau ea. The next day her general condition was good but subsequently she notice i enlargement of the abdomen and acceleration of the pule. The diagnosis was intraperitoneal hemorrhage of unknown cause Operation revealed on the surface of the left overs a cornus luteum with a small tear from which blood was oozing The tube and ovary on the left side were removed The abdominal cauty contained a quantity of blood larger than that usually found in cases of ectopic pregnancy. The patient died. The spleen was found to weigh 2 100 gm Microscopic exam mation of the removed ovary showed a somewhat cystic cornus luteum with good vascularization

The author concludes that these cases prove both macroscopically and microscopically that rupture of a corpus luteum or corpus luteum of 3 corpus luteum or corpus luteum of 3 corpus luteum or set may cause extensive intraperitional hymorrhage. He agrees with Forsiner that many of the forty cases of this type which have been reported in the literature ere not proved cases as pregnancy was not definitely tuled out.

The article contains illustrations of the gross pecumens and micro copic sections

SALVATORE DI PALMA MID

II rtm nn keppel G L. A Metrorrhagic Form of Tuberculous Adnexitis (L. te tub culeu à i me mét tragique) Gynec i bii 1923 u

The author reports two ca es The first was that of a woman 28 years old who had always had a slight leucorrhora and when 16 years of age suffered an attack of serofibrinous pleuri y Since marriage she had had eighteen abortions after from three to seven weeks of pregnancy Five Wassermann examinations were negative. During a p mod of four years menstruation had been more abundant and the periods had increased in length from four or fi e to se en days. The blood was bright re? and contained clots 4 to 7 cm long Bacteriological examination of the leucorrhee I discharge which occurred between menstrual periods was negative for tubercle bacilli General veakness developed gradually Respiratory and circulatory functions remai ed normal Cystoscopy showed sight bul lous adema in the reg on of the trigone laginal examination was practically negative except for thickness in the right fornix Rectal examination revealed tenderness in the region of the right adnexa With a loss in weight of about 15 lb there was an

evening rise 1 the temperature from 48 2 to 48 s degrees C

It operation the ovaries vere found normal except for a slight sclerosis on the right side. The left tube , as somet hat adherent but apparently nor The right tute was omewhat enlarged markedly congested and embedled in adhesions At the 1sthmus was a nodule which seemed to be undergoing degeneration \ right salpingo-o phor ectomy was performed an I the abdomen close I in layers thout framage Microscopic examination of the tube showed tubercle bacilli an I grant cell The rations mad an uneventful recovery and in the last four year has be n fr e from symptoms

The second case was that of a young unmarried oman with a definite history of tuberculosis on both her m ther s nd her father s si fe of the family and a personal h story of an attack of bronchonney monia lasting for two and one half months. After her pscudo grippe or pulmonary affection her men strual periods gradually increased from three to tive to seven days the meastrual blood contained clots and there was some loss of blood between the menstrual periods Marked anamia resulted B tw en th menstrual periods there was a slight leue rebreal discharge. The hamen being of the cribiform typ aginal examination was impossible Upon rectal and abd minal examination the uterus was found small soft anteverted and only sightly mobile. The right former was thickened and si ghtly

At laparotomy the appendix wa found normal and the uterus small and soft. The right ovars also as normal but the right tube was somewhat enlarged and indurated and catheters ation showed it to be cl sed A few nodules were found. The appendix right to be and right o ary ere removed Micro copic examination showed tuberculous sal ringiti the appendix and right overs were normal S LLATORE D LA MA M D

MISCELLANEOUS

Rosenblum P and Bettman R B Acute Pel ic Abscess in Children Am J D Child 10 4

The authors report three ases of pelvic abscess in children in which the symptom ere relieved by framage. In the first two cases dra nage occurre i ca e it as est bl hed by operation The sup pura tion trobably o ginated in the retroper toneal struc-tures and as I glandular origin

The f equent association of abdomin I pain with throat infections in children n ay explain also the et ology of pelvic bs esses secondary to metastati infection of lymph gl nds in the bdomen In the ca es reported the ab coses were not of appendice ! origin and there vas no evidence of spondylit s Il of the pat ents were f m les the source of the

I fection may have been in the geritalia

Ha W TINK M D klei ne If Comparati e Examinations I the Blood Aft r Roentgen Ca tration and \ ginal Hysterectomy for Hamorrhages (Verg! b d Bl tunters h n nach Roe tge kaste is a u d aginal r Utery at p t n b i Bl tung n) If h med H chasch 1923 lx 14 4

After calling attention to the differences in opinion expressed in the literature regarding the effect of roentgen irradiations upon the hæmatopoiet c sys tem which are largely attributable to differences in the technique used the author reports the findings in twenty women between the ages of 40 and 50 vears who were treated for hamorrhage by vaginal hysterectomy and twenty who were subjected to castration with the mentgen rays. The irradiation technique is not described. The blood was examined before and one day fourteen days and ten weeks

after the treatment Ten veeks after the operation the blood picture was normal in e ery case whereas ten weeks after the irradiation there as a distinct I ucopania (diminution by one fifth) in eighteen of the twinty cases In half of the cases the rythrocytes were also diminished in number on an average by e e minth. In the majority of the cases the nomen recovered more slo ly after the irradiation than after the oper tion

Bonney V Conservatism in Gynecological Sur-E TY Padle er 10 4 XI

Lie ne fib oids and my ectomy Although fibroi | tumors are compo ed of ti sue ordinarily as benish as that of linomats the most common treat ment is hi sterectomy. If the same tumor were g ow ing in the I g or arm no surge n would think of

amputating the hmb The basic principle of myomectomy-removal of all fibroids through an anterior incis on-was laid down by Idamst enty five years ago Adams made the inci ion in the ant or wall of the uterus becau e he drained the cautty or cavities I ft by the enuclea tion and we hed to bes g the drain out through the abdominal 1 Il Such drainag however is not necessary or des rable. An anterior incis on is pre ferred today beca se it les against the bl dder rather th n against the intestine and if any oozing occurs from the suture line the intestine will not adhere to it Arother ad antag is that the s ture line can be re inforced by fixing it to the abdomin) wall by suturing it to the back of the bladder or by short no g the round I gaments so that they will ke p it pressed up against the bladder

The uterus m v be conserved even when a large number of tumors are remov d The author ha removed as many as thirty fibroids from one uterus In his la t 150 operations there were only two deaths Both occurred e rly in th s es and e e due to faults of technique bich he h s sin e corrected Mary of his p tients hav borne ch ldren normally after the operation from one of them h removed tw aty o e fibroids o ly eighteen month befo pregnancy

Cases unsuitable for myomectomy are neglected c es in which there is anomia and those of elderly

and all somen under no years of age my omectomy, is to be preferred to hysterctomy unless there are lefinite contra undeatones. In cases of fibrods complexiting perganey, conservation of the uterus is especially called for since the functional value of the organ is proved beyond a doubt. If the child is vable the fibrods should be removed through the unison by which the child is removed through the most on by which the child is state the fibrod should be removed through the most on by which the child is not viable it is sometimes possible to remove the tumor or tumors without interrupting the pregnancy but when they are deeply embedded it is best to proceed as if the child were viable and

remove it vith the growths

C nitration of De gravites

The ovaries should
never be removed unless their retention means cer
tain danger to life or health

Chocodate cysts
when small strip out as easily as dermod cysts. The
author has enucleated them on many occasions and
has not vet been obliged to operate for recurrence.

Removal of the ovaries to bring about an artificial menopasse in cases of menorrhagir, due to fibroid or fibross is no longer done but the permicrous prin cuple has been revived in the X-ray treatment of fibroids. In most cases given such X-ray treatment the bleeding does not stop or it recurs and the tumor instead of shrinking continutes to grow or undergoes acute degeneration or suppuration.

Conserval is of the tubes. In the author's opin on tubes accutely inflamed usually remain per manent! blocked distended and adherent. The policy of assuing resolution results in many in stances in the formation of double possipinix with involvement of the owners. If the abdominal ostium is the only point of closure a new ostium can be fashioned by the operation of salpingostomy. A second operation is probably not worth while Attempts to make a false passage by passing a piece of catgut from the tube into the uterus are almost certain to fall. The author has re implanted the tube into the uterus but has never had a success full result from this procedure. Cast. II D VIN M.D.



hundred and eleven of the surviving 163 women returned for further study at the end of a year

The findings clearly indicate that the late effects of eclampsia and more particularly of pre-eclamptic toxamia are more severe than is generally supposed A four year study of all patients with late toxemia of pregnancy shows that physicians are not justified in assuring those who have suffered from eclampsia or pre-eclamptic toxemia that they may face future pregnancies without fear of toxemic complications

The length of time the toxemic symptoms have persisted seems also to be a factor in determining the occurrence of permanent renal dam se is of especial importance in the management of preeclamptic foxemia as many nationts with this complication are kept at rest placed upon a restricted diet and subjected to methods suppose I to promote elimination and if urgent symptoms do not ari e the treatment is often continued until term i reache ! an I labor occurs spontaneou ly That such a procedure results in a very low fetal mortalit i proved by statistics but because of his experience the auth r believes it pertinent to inquire whether the chances of permanent renal injury may not be errously note se i by allowing the pregnancy to continue too long

While eclampsia did not recur in the eries of cases studied the fact that three of the twenty-seven eclamptic women who were seen one year later showed evidences of chronic nephritis indicates that the danger of permanent renal damage following

eclampsia is not to be disregarded

The danger of chronic nephritis following pre eclamptic toxemia is unexpectedly great as shown by the fact that 60 per cent of the patients whose pregnancies were complicated by pre-eclamptic toxemia showed evidences of chronic renal diser e

when examined one year later

The author is unable to differentiate between cases of pre-eclamptic toxemia which will be followed by chronic nephritis and those which will not result in permanent renal injury but believes it possible that the duration of the toxxmia before delivery may be an important factor

When in supposed ca es of pre-eclamptic toxemia the evi lences of the toxemia persist for three weeks or more after delivery. Harris assumes that the un derly) g disease is of renal origin

EDWARD L CORVELL M D

Gordon O A Jr Th Management of Abortion J Am W A 037 J X21 10

The author reviews the man gement n 1528 cases of incomplete abortion

In cases of threatened abortion uterine rest is necessary. This is given by absolute rest in bed and the administration of morphi e Upon admission to the ho pital the patient should be prepared as for bor Vaginal examination is contra indicated. The bowels should be kept open by daily low e emata

In cases of inevitable abort on in which there is excessive harmorrhage or the products of gestation precent at the os the agina sho li be picked or

the partial products removed from the uterine cavity Packing was done in 62 per cent of the cases reviewed by the author Saginal packing checks the hamor rhage by acting as a plug and by stimulating more powerful uterine contractions which aid in emptying the uterus. In all of the reviewed cases in which packing was done pituitary extract was given. The packing v as removed after from eighteen to twenty four hours. Usually the products of gestation came away with it. In 10 per cent a second packing was necessary If the hamorrhage persists after the second packing instrumental evacuation of the

utern is indicated Septic cases should never be treated actively. In these hamorrhage is unusual because of the exten sive thrombosis of the uterine and pelvic vessels. In the cases reviewed the patient was placed out of loors and in the Fo ler position Feeding was forced In a few instances repeated small blood

transfusions were given

The mortality and morbidity of abortion are dependent upon the amount of intra uterine intervention Curettage changes many aseptic cases into HARRY W FINE MD septic cases

LABOR AND ITS COMPLICATIONS

Manton W Dystocia Resulting from Pathology of the Soft Parts of the Generative Tract J Mich ta State M S 1924 XX 1 01

The author discusses congenital and acquired pathological entities according to their location classifying them as vulvar vaginal cervical fundal and extrafundal In many instances the abnor malities involve more than one of these areas

Mal gnancy of the cervix complicating pregnancy is occasionally seen but as a rule malignancy hinders impregnation In such cases labor should not be allowed to occur In cases of moperable malig nancy the pregnancy should be allowed to progress in the interests of the child During the early months an operable malignancy should be dealt with regardless of the child In cases of operable malignancy discovered late in pregnancy the author does a Porro operation

For cases of fibroids of the cervix and uterine body he urges watchful conservation but for those in which the tumors are softened or necrotic he advocates more rad cal measures Operations for the removal of necrotic tumors of the fundus of the uterus should be performed before labor beenns

In conclusion Manton gives the following general rules for treatment

t All hollow or degenerated tumors and operable malignancies should be removed when d agnosed 2 Nomen with one or more of the other lesion probably necessitating casarean section may be allowed to go to term

3 Simple vulvar and vaginal lesions should be taken care of during gestation

4 In borderline cases a trial of labor may be gi en

C FISKE JONES M D

Titus F and Andreas \ L. I Frozen Sections
Through the Uterns of a Woman Dying Duri
ing the Third Strage of Labor Mustrating the
Mechanism of FI cents of trusts of trusts
trusion II Frozen Sections Through the
Uterus of a Woman Dying from Central Fia
centa Fravia Following Braston Hicks ver
alon Am J Ob 1: EG 70, 2924 # 330

The placental separation of Schultze in which the organ is inverted and extruded with the fetal surface first is caused mainly by uterine contractions during the thrd stage of labor which are comparable physio logically with those of the first and second stares.

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McPherson R The Treatment of Placenta Prævia Am J Obst & Gy c 0 4 V 4 3

In the last 501 cases treated at the New York Lying In Ho pital seventy mothers ded a morlatily of 217 per cent. The stillburth mortality was about 42 per cent. These figures slow a coaside-able improvement in the maternal mortality but only a very slight one in the infant mortality but only a very slight one in the infant mortality but only a very slight one in the infant mortality but only a very slight one in the infant mortality but only a very slight one in the maternal mortality but only a very slight one in the maternal mortality but only a very slight one in the mortality of slightlers bon above fabout 18 per could ded before lea mig the biospital a total fetsl mortality of slightly on x fo per call.

The preference in treatment was given to gatue parking follo ed in most instances by an internal parking follo ed in most instances by an internal parking follo ed in most instances to an internal parking following the same parking the were forceps and normal denvenes

Nothing has contributed more to a successful issue in placenta prawra as f ras the mother is concerned than blood transition. Therefore in all cases the mother a blood group should be determined as soon as the diagnosis is established and a satis factory donor should be held in readings.

Treatment should be instituted immediately. It apper esthat if the crevits undilat do only sightly dilated and f the voman is near term and has a living child an abdominal creatrean sect on rapidly performed by a competent operator offers the best solution for the mother and third. On the other hand if the child is dead or non-viable one of the

less drastic methods of delivery may be employed. Of the latter the author is inclined to favor tam ponade with sodocurnate stops. In practically all instances the will control the hemorrhage especially if the membrane are first reptured. It stimulates labor pains causing dilation of the crevar and remains in place until it is removed by the operator.

Care abould be taken in handling the certix as in these cases it is very fraible and any to tear. A tear favors harmorrhage and subsequent infection The obstetrician should be prepared to give a transission at the time of delivery. If there is any double at all of its necessity it should be given without clay. Privitiva and ergot my be used size fely them to the contract of the contract of the internal uterns and crapt in the contract of the internal uterns.

Polak J O is Casarean Secti n Justifiable in Abl the Placentae? Am J Obst & Gy 12 924 v 384

Clinical study of a large number of cases of ablato placents has shown that it is possible to differentiate between those that can be safely treated expectantly and those that require rapid infrapelive delicery or section and hydrectiony. The treatment depend largely on the extent of the pathology. While today many cases of separtions show arrelatable evidence of in associated tozemus, there are others in which the condition cannot be attrabuted to this cause.

If the accounts a matter completely retract on the site party not take place as long as the utrons onletts prevent disabilities as long as the utrons contents prevent disabilities in the size of the uterus consequently instead of their clines and the wills become distance and more atomic as the beeding from the placential six continues and the blood accumulates in the space between the membranes and the uterus allene continued intra uterus beeding its uterus. Hence continued intra uterus beeding its uterus. Hence continued intra uterus beeding its uterus. I not continued in the system blood pressure a progress in the size of the uterus a rising pulse rate a persistent fail in the system blood pressure a progress when a pallor in such cases prompt surgical intervention with coincider blood transitions on sudicated.

Account typical syndrome which may be readly recognized is presented by the pregnant woman at or near t rm who after exertion or without apper cable muscular effort except perhaps a few uterns contraction is seased with cramp like uterns p in chight collapse evidenced by nauser pulber with explaint and the pulber are to physical examination the uterns p in the pulber are Op physical examination the uterns the pulber are Op physical examination the uterns and the pulber are Op physical examination the uterns and the pulber are of the pulber are the pulber

ill be found tense and tender and may be asymmetrical if the blood has accumulated behind the placenta (accessory tumor) lagmal bleed ag may be apparent with the octurrence of pa nor may be demonstrated only on vagual examinatio with rais ag of the presenting part which I berates the accumulated blood clots

A patient presenting this picture should be unmediately transferred to the hospital and placed under observation. If the cervix is effaced or the patient is a multipart the membranes may be ruptured and the bulk of the uterine contents diministrated to relieve the shock and aid in the dilation and a tipt many tailed abdomnal binder applied from above do unward to compress the uterine wall firmly against the fetal tampon In addition the vagina should be firmly plugged with sterile gause or cottom mostered with brong-bulk after the distribution of the sterile plus or cottom mostered with brong-bulk after distalting the sterile gause or cottom mostered with brong-bulk after distalting the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus or cottom mostered with borg-bulk after the sterile plus of the sterile plus or cottom mostered with borg-bulk after the sterile plus of the sterile

When there are signs of progressive intra uterine bleeding no infravaginal method of delivery is justifiable unless the cervix is already dilated. The author formerly, delivered women in this condition by manual dilatation of the cervix the use of for ceps and version but after the fetus as eepelled they sometimes collapsed with a postpartium gush so torrential that it was uncontrollable.

To deliver a dead child the obstetrician is not institled in doing a casarean section which will entail further shock and ozzing unless he i prepared first to give a transfusion and then to prevent further

blood loss by hysterectomy

In the majority of tragic cases the unprepared cervix offers an obstacle to infrapelyic delivery hence it has been the author's plan after first giving a transfusion to open the abdomen with a long median incision and eventrate the uterus Inspec tion will immediately show whether it requires re moval or can be safely left in situ. The apoplectic uterus shows numerous ecchymotic areas and fails to contract As in the presence of such a condition the child is invariably dead Polal clamps both broad ligaments in order to control the uterine and ovarian blood supply belo e he incises the uterus this permits the performance of a bloodless supra cervical hysterectomy On the other hand if there are fetal heart sounds if inspection of the uterus shows no intermuscular harmor hages evidenced by each motic areas under the perimetrium and if the uterus intermittently contra ts hysterotomy in which an intra uterine pack is left within the cavity is a justifiable procedure FOWARD L CORNELL M D

PUERPERIUM AND ITS COMPLICATIONS

Lankford B A Study of 300 Cases Private Patients Six Weeks or Longer Postpartum with Reference to the Condition of the Pelvic Floor Cervis and Fundus Am J Ob 1 & Gyme 924

In this study of the genital tract beginning from below the first note was made regarding the ap-Pearance of the vulus. In 115 cases they showed no gaping in 139 cases slight gaping and in forty six marked gaping "hight gaping of the vulva seems to be normal in parous women and its not associated with any uncomfortable symptoms per se Begin ning cystocele was found in twenty four cases begin ning rectocele in ten cases and cystorectocele in twenty nine

The next point noted was the tone and condition of the levator muscles. These were judged by their thickness passive resistance to two examining fine gers and power of voluntary contraction. The leva tors were in excellent condition in 157 cess in fair condition in 150 and in poor condition in thirty six. From the study, it appears that when the levators are thick and have a fair degree of passive resi t ance and when the voluntary contraction is excellent of fair there need be no fear of poor functional or anatomical results following labor as far as the police flow is concerned. In the two other classics one may expect trouble and predict the need for future.

Cervicel Jacetations were described as follows slight unlateral eighty cases deep unfalteral thirty cases bilateral minety nine cases stellate sixteen cases and oppreciable Jacetation seventy five cases. The cervix was at right angles to the vagina in 200 cases and in line with the value in minety six.

The position of the fundus was classed under three heads forward 175 cases mid position forty five cases backward or retroverted seventy nine cases. The size of the fundus was estimated as normal 122 and as lyiger than normal in eighty five. The consistency was taken to be normal in 237 beggy in eighteen and tender in thirty five. The uterus was found to be mobile in 284 cases and immobile in eleven. When it was immobile the fundus was abound to be mobile in 284 cases and immobile in eleven. When it was immobile the fundus was field back so tendity forward by a site degree of force in the manipulation used or was so tender or so painful that it was deemed best not to persevere in the effort to replace 1 at 11st time.

EDWARD L CORNELL M D

De Saint Blaise G B and Joanny J The Treat ment of Generalized Forms of Puerperal In fection (Le tr it m t des c d nts septiq s pu pé u no local sés) G é l gue 914 x

The treatment of puerperal infection has under gone considerable change during the last five years Curettage is not very seldom performed and intrauterine injections have been practically abandoned because of the frequency with 1 hich they are followed by a reaction

In a search made at the St. Antone Maternity Mospital Pera for a simple method of teatment decond of danger and requiring no special labora tony equipment now amphenamine was given a trial. The article is based on the results in 765 cases in which it was used in a per ood of tweety months. It was found of value only in cases with symptoms of general infection. Peritonitis and vulvar infections with moderate feer were not benefited. The contra with moderate feer were not benefited. The contra

I feat us to the treatment are the u ual ones for nee ars heamine. Generally o so gm was given every other day as long as the symptoms of infection persisted and about five in cromswere sufficient

The mortality during the eight months in which applicament was used was di tineth lower than in former years from the standpoint of both the total number of fed eries and the total nu ther of cases

of infection

The total mortality for the service over a four year period was as follows 1920 o 48 per cent 1921 o 44 per cent 1921 o 27 per cent and 1923 o 20 per cent. The mortality in the cases of infection was 1920 8 08 per cent 2021 45 per c nt 1921 28 per cent and 1923 (eight months) o 50 per cent.

The influence of two samplanes to speer cease of puerpral fever in due mobils to a lactococal action easier lever in due mobils to a lactococal action easier leval particularly on the streptococcus. The shipothe is its strengthener lb with reports of two American mixet getters Allison and Cape Wilson four 11 that the art 1500 solution of arphenomene carete? a bacterioidal string on the strept soccus and that waker solutions had an inhibitory effect. Cape acported six curse of maling inhibitory effect. Cape acported six curse of maling of larre for et of solution accordant model by means of larre for et of solution accordant model by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of larre for et of solution accordant med by means of the solution accordant medium accord

ALBERT F DECRO T M D
Piper F B The Treatment of Puerperal Septi

The author divides cases of puerperal infection into four groups

1 Cases of puerperal infection. The e incl de ill cases in which a sud len ri. in the temperature ith the usually as ci ted simptom occurs furithe ruesperium.

2 Ca es of puerperal appramia. In this g oup are cases in which the evil nee of infection is luprol ally to the absorption of the toxins of putre incine batteria.

3 Case of puerperal sep is. These are cases in which the inf cti n beginning in the birth can I extends else here b way of the himph channels or the blood stream or by direct contiguity.

4 Cases of puerperal septicam a In this gr up are cases of puerperal sepsis in which the micro organisms are demonstrated in the blood stream

The clinical of ference bet een supræma and local infection in the brit canal is that the former will clear up almost immediately after the establishment of drain ge while the latter may persist I r along period. All cisses of jurepreal septicemia are cases of purpersal sepsis but a localize infection of be brith canal in not episs nor 1 every case of sepsis more accessing a cas of septicemia. Septicemia Septicemia condition in which the bacteria multiply in the blool stream and increase stap III, in a visibner

In the treatment of cases of puerperal infection the first consideration is separation of the case from normal obstetrical cases. Fowler's position should be used to favor drainage. If this is not successful the author prescribes an intra uterine douche of Lugols solution weak mercurochrome or moded to Dakins solution. The patient should be carefull watched for signs of blood stream infection. If these appear a blood culture should be made but except in very sex-tre cases no intra-k enous treatment should be given until alter a positie to blood culture should be given until alter a positie to blood culture sha betolkamed. I positive culture usually shows homo obtained. I positive culture usually shows homo obtained. I positive culture to the properties of the pro

The intravenous treatment consuls in the agetion of a 1 per cent solution of interucorbonies in its file I water. The finital flows is from no to 30 c cm. The minimum does is 45 c cm. The 1 utlose is given a sonn as a positive culture a obta ned. The patient will seasily react to this with a fill followed by a rise in the temperature red star of d arrhead excassion bemature and the omitting of red stained vomitus. The chief langer is lamate to the halones.

After two or three days the patient has recovered from the reaction to the first uperction and will be ready for another provided the unnary exercison has been properly maintained. After the second injection and its reaction, there is usuall unpro ement in the general condition. Localization of the infects in must then be looked for in order that training may be established.

The author believes that the reaction following the inje ta na is probably due to the lestruction of the bocteria as it was noted that the reactive chill was usually absent when the blood culture was negative. The treatment of the reaction is 33 mb tomatic.

NEWBORN

Cord n A Meningeal Hamorrhages in the New born and Their R mote Consequence Am J D 1 Chill of the Late

During b rth hemorrhages may occur at d flerent levels either within the nervous tissue itself or close to the cranium. In the latter case the blood may be located bet een the bone and its periosteum (rephalhamatoma) between the periosteum and the dura or beneath the dura.

During a difficult labor the frequ in changes in During a difficult labor the frequ in changes in the control of the head and the excess e tenson over stream that the head and the feets of the control of the complete or incomplete unitarial or bilderial. When the tent rium creebell is since of the tent usually found below it juncture with the fair cere belli. When the fair cerebr is damaged the tent occurs it the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the course is the level of its modele two through the level of the modele two through the level of the modele two through the level of the level of the consideration of the level the level of the lev

Similit subdural harmorth ges may ceu over the surface of the crebral hem phere during difcult labo. In cases of or prese tat on they are pricularly tense. V a rule they occur between the layers of the falt ocebin but this is true less frequently than in cases in which the tent runn a invol of Occasion (by tens) because the runn a new order of the control of the control of the but where it does small hematomats are former.

In considering the causes of meningeal harmor rhapes it is extremely important to bear in mind the immediate and the predisposing factors Infections and intoxications in ulero may be directly to ponsi ble but the most frequent cause is trauma during confinement such as that resulting from extraction of the head last forceps delivery from a contracted pelvis or presentation of the face or forchead With regard to breech presentation statisti's show that tearing of the tentorium occurs in from a to 75 per cent of fetuses thus delivered Holland believes that in such cases the cond tion of the tentorium is due to the endeavor to effect rapid delivery after version and that if breech delivery is properly managed there will not be sufficient intracranial tension to tear the tentorium

Meningeal harmorrhage is note frequently suspected than actually determined during life condition may cause death within a fe v hours but if the infant survives it i in a state of apparent collapse with cyanosis a low temperature con vulsions circulatory and respiratory disturbances various palsies and contractures. When the infant succeeds in overcoming the immediate effects of the bleeding the storms symptoms gradually subside and the child enters into a chronic state of physical and mental inferiority with a crippled central ner vous system Diplegia hemiplegia spastic para plegia contractures athetosic or choreiform move ments convulsi e phenomena amaurosis mental deficiency or debility of various degrees form a syndrome which may be cla sed with infantile en rephalopathies. This large group includes of course mild cases and those in which the damage is pro found From the standpoint of intellectual develop ment the child may be an idiot or an imbecile or may present only slight arrest of mental develop ment The outcome depends on the hæmorrhage and on the rapidity with which the blood is removed

The cause of meningeal harmorrhage is principally the tearing of the membranes due to their overstretching which leads to rupture of the blood essels. To produce a tear their must be great crainal site s. Since the latter is frequently the result of protracted difficult labor with instrumental felivery, the obstetrician should bear in mind that hore tweet of the more than the force weed in the amplication of the for cose must

not be excessive and mut not be applied to the wrong diameter of the head as for example the anteroposteror diameter. In the latter case the vertical elongation of the head is particularly apt to cause overstretching, and teating of the meninges Forceps are of values and in many instances have saved life but they have been responsible also for injuries to the fetul selding to consequences which had a direct bearing on the later physical and men tal development of the child. The prevente expetlies in the consideration of all forces apt to cause tearing of the meninges and blood vessel

Cases of supratentonal hamorrhage at birth are characterized by a bulging fournated and a group of nerrous phenomena such as sleeplessness resiles on ners and convulsive secures. Infratentorial burst rhage cause depression apathy somnolence early expansis vasionote and reputation manifestations and rigidity of the neck muscles. Because, of the anatomical differences respiratory and other bull bar disturbances will not be observed in supra tentorial hemorrhage.

In cases of supratentorial hamorrhage cyanosis appears late and is not pronounced but in cases of infratentorial hamorrhage it appears early and is very pronounced in the former the anterior fontanel is budging while in the latter it shows slow distinction.

In infratentorial harmorthage lumbar puncture may be of considerable benet Frequently the withdra al of spunal fluid must be repeated in supratentorial harmorthage lumbar puncture is of little avail as the blood cannot reach the substitution of the surface of the supratentorial state of the supratentorial state of the supratentorial state of the supratentorial state of the suprate of the supratent suprate of the suprate of

It seems logical to conclude that in all cases and cating increased interaramial pressure at birth lum bar puncture should be resorted to at once before a definite localizing diagnosis is made since in cases of infractiontial hiemorrhage it is of definite thera peutic value and in cases of supratentorial hiemorrhage that stablish is the diagnosis promptly.

CARL H DAVI M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Collett A : Genito Suprarenal Syndrome (Supra renal Virilism) in a Cirl 114 Years Old with Successful Operation 4m J D 1 Ch J 1924

The author re seas the hierature beginning with two cases lesembed to His pocrates

With Apert he distingui her fi e types of lyper epinephry lepending upon the age at which the con I tion appears All are characterize 11's marked I spertricho is exce sive growth of fat ti ue early le el pment of the body and di turbances of the genital functions

Type t Hyperer mer hay of the embry onal nemal In the embryonal period the inf valual becomes a hermaphrodite internally fimile and externally masculine There is mith I hypertr phy of the

supratenal glands

Type 2 Hyperepinephry during the fetal period In this type the anomaly is less pronounced but there is no doubt as to the sex. The clitons is large the uterus and o aries are atrophical and hyper trichosis is tresent. The hyperplasia of the supra renal gl n t pr lath lates from the later period of fetal life

Type 3 Hyperepinephry of the prepuberty peil In this type there is abnormal body develop ment with puberts precor alipositas hypertri chosis and pa tial hyperty; hy of the clitor

Type 4 Hyperepinentry of maturity struction at his unit marked ad no itas unit hyper

trichosis are present

Type 5 Hyperepin play during it period just before an't after the m nop use The chinical pic ture is in I stinct. Ther is marke I a lipositas with b turbance of the genital functi as and in it r rhagia but ithout hypertricho i

It is a nerally believe ! that tumors of the upra renal me full are never ac ompanie I by chan es in the sex characteristics. Such changes are commonly attributed to hyperactivity of the cortex bich is believed to e vern the growth of the body and the development of the sec ndary sex char cter stics.

The child hose case is reported by the uth r showed marke I changes hen next exam ne I four teen months aft r the operation Collett believes this to be the first use on record n hich survived the remov 1 of a tumor crus ng the gen to suprar nal syndrome. This child's pro pects of at taining a lult age se m good Jony I O Yrit W D

M rtz HO A Study of tl Ples ftle Doubl Aldney 1 6 1 14 1 50

is a rule the single omplete urologi al examin tion till show all abnormalities present but occa

sionally a doubl ureter or a f ubl kidne is over looke! Of a serie of thirty double kidn ve seven were n t re ognized or were found only after re peate | examinations is a rule it was the caudal melets which was catheterized as the preteral tih e occupied the area in which the single orifice is usually f und The cases revie ed by the author inclu le also se n cases of lifd ureter th catheter entered the caul I nels is in five

Ually the caulal pelyss is the larger and more nearly april aches the single pel as The sune for major cally may or my not be present cephal c pel 1 m v cons t of one major caly x w th but one papills or may resemble the pelvis of a normal kilney. In five of the cales reported the rephilic pelvis was equal to or better d veloped th n the caudal pelvas. In one e se at closely resemiled the normal. It mas pass upward and to ward unward and laterall outward or lownward an I outward

The teles of the double kilner are shrars situated one above the ther and are separated by kt iney substance A communication between the calsees is unusual. The cephalic pelvis is closer to the spine then is the caudal pelvis Pios is

In a study of Lilateral pyclograms made in 111 cases of apparently single kidneys a marked uni I rmity of the two ki lnevs was found. In cases of bif d pel es the un formity as less marked If only one nel is of a liff kilner is injected an area of

Li iney ubstance greater thin the apparent area frain d by the calyces pre ent suggests doub e kid I small pelvis in a rudiment ry single k dnev and an isolate I di va ed calva which i not shown in the pselogram may be confu ing

The article contains a number of prelograms llustrats the amous types of doubt pelvis

C ID D PICKE IL MD

Hinman F and Morison D M A Comparati e Study of the Circulatory Change in lighto e phrosis, La eccavernous Tuberculo is and lolycystic kidney Preliminary Report J 0 1 2

The material for study was obtained at operation and autopsy. The specime s ere irrigated through the g art ties with normal salt soluti n and then inj-cted with a 60 per cent barrum sulphate sus pension in gelatin at a pressure of 250 mm. Hg After fi ation in formal n the k dneys vere stereo scon calls & ra ed entire and then sect oned an ! aga a \ raye! Lare is necessary in the use of this method to avo d the products n of changes sugge ! arg pathology Material so treated my be sub mitted to routine pathological study

Brief reference is made to the normal circulation in the human Lidney in order that the pathological circulatory changes described may be properly ap preciated. The principal branches of the renal ar tery divide in the sinus renalis into smaller branches s hich enter the parenchyma bets een the lobes of the kidney-the interlobar arteries These pass up along the walls of the calyces and the sides of the pyramids to their bases and end by arching over as the arcuate arteries Convergence of the interlobar arteries tends to form a dome over the base of each pyramid From the convexity of this dome numerous fine branches-the interlobular atteries-are given off into the cortex These vessel run parallel to each other and at right angles to the surface of the organ From the concavity of the dome fine arterial radi cals-the arteriæ rectæ-descend between the tubules of the medulla As the interlobular arteries are the parent vessels of the glomeruli the presence or absence of these vessel is an indication of the amount of functioning cortex that is present

In uncompl cated hydronephrosis in man early pressure forces the apex of the pyramid back out of the pelvis. Later the pyramid becomes compressed on its base thereby in ol ing the parenchyma of the cortex. The blood vessel running in the same direction become shortened and tortuous arteriæ and venæ rictæ of the medulla suffer first and the interlolular vessel next. The per pheral glomeruli appear compressed hereas those situated more deeply become larger As the medulla recedes before the di tending pelvis the arteriæ rectæ are necessar ly affected fir t and their glomeruli gradu ally vield

As the calvees d l te the interlobar trunks and the arcuate ves els becom stretched and the diame ter of their lum; a is dim ni hed hereas th finer interlobular branches shich pursue a course radial to the source of p es ure soon p s ir m a stage of shortening to complete obstruct on By progressive matat on the cals t becomes a thin alled sac over and around which c urse atte uated and greatly lengthened interlobular and arcuate trunks the sole remnants of the vasculature of a renal lobe

As a result of the reduct on in alibe of the main trunks due p rtially to pres u e but mainly to stretching the e 1 a diminut on in the blood supply to the cortex which pr duces a parti I anaemia of the cort cal par nchyma. The tend to lessen normal tissue tone and favors laxation and dilata

In ca eocavernous tuberculo is of the kidney d latation occurs as the result of bstru tion of a calvx the u eter or the pel is Accompanying the rocess of d stention is the factor of infection. The vessels in the immediate neighbo hood of a tuber culous focus develop enda tentis obliterans which in the barium sulphate preparations is evidenced by areas of non injection. The e-more intimate changes produced by p thology in the vessel walls are masked if the pictu e passes f om one of pri mary infection to that of secondary hydronephrosis

With regard to the polycystic kidney the authors state that in the finer vascular arrangement the progressive cystic change causes an alteration of compression rather than di placement. The multiplicity and generalize I distribution of the cysts pre vent any marked deviation or displacement of the main renal vessels but subjects them to compres sion and elongation. In the interlobular branches compression is more marked. In the final stage no interlobular vessels describing a normal course can be identified. Coincidently there i complete atrophy of the functioning ti sue. In the poly existic kidney the fetal type of circulation is main tained a fact supporting the hypothesis that the cond tion 1 of embryonic origin

H A FOWLER M D

J hnson F P and Hill J H Gonococcal Infec tion of the kidney and Criteria for its Diag nosis J L ol 024 x1 177

From the James Buchanan Brady Urologual Institute the authors report a case of gonococcus infection of the kidney associated with blocking of the u eter an I resulting hydronephrosis and hydro ureter Reference is made to the literature ; bich contains the reports of twenty eight cases in fifteen of these the diagnosi was based upon cul tural study while in thirteen it was made from direct smears alone. The authors emphasize the point that such method are madequate for the accurate identification of the gonococcus and stres the necessity of differentiating the meningococcus gonococcus and micrococcus catarrhalis

The gonococcus may be identified by (r) its

appearance in a Gram stained smear of the ma terral from which it is isolated (2) its cultural characteristics (3) its biochemical reactions and (4) its immunological reactions The first two con stitute the presumptive evidence but one of the last two must be included for a positive differential identification By cultural methods identification may be narro ed to the gonococcus the menin gococcus and unkno n neisseria. It should be noted in connection with cultural characteristics that gro th on ordinary media without enrichment

ith body fluids may not be conclusive negative evidence in the identification of the gonococcus Pasitive proof should be obtained by fermentation tests. With properly prepared media the fermenta tion of detrose alone may be considered conclusive exidence that the organism in question is the gono coccus The fermentation of both dextrost and maltose places the organism in the meningococcus

group

The case reported was that of a boy of 17 years who was admitted to the hospital with severe pain in the right side of the abdomen Six weeks pre tion ly he had had an acute attack of gonor hora One neek before his admission to the hospital he had occasional pains in the right lumbar region The night before admi son he suffered with in creased abdominal pain nause and comiting A

diagr is of appendicit's was r le Tie temper ture was 1018 i gres i Ib al timen thine i markel merlity carticular a ther ght at wh re it exten ed to the r n l area flere was a thi l vellow di charg fr m the unthra Al une to is of 18 000 wa fun! The nell n erem tar ills

Explication result in ried litentain of the renal pelvis and a ureter al ut # in it firmeter lici on of the rel is wa I flowed by the esc pe of from 1000 to 1 on e m I clar pro t ugie met & me rest tan e in the ur ! r but ; cl

to the blaffer There w a no grat ng from store When the fatient was d where I there two lava after the peratu n the wound was he let ant b general condition was good but the urine was cloudy and contained street tocket. The infe tier wa I ter el are l'ur by la age of the r nal pelis with ail or nitrate II A I wate M D

It mas (J and Regni e E. 4 Tumors of th Kidn y Pelti and Lreter / LA nzz

The author report f e case of tumor of the List ver pel is and ureter observed by them in the past

three years Case I was that I a girl ; > years 11 Hema turts () well exposure to off with netting of the tel live lays the tou ly the patient hat falen injurit g the luml r region On cost se p ceramina tion un ler gereral angath a the bla er appeared r rmal No urine was seen oming from the left estium but clear urer i unt from if if ht C if ters were p wed to the kide as with ! # culty utine from the left kitney was bloody that from th right was clear fillateral n ker ma nere ma e Il left pelv was f afe larget the cal ces er d lat d and the en is clubbe! The neht pelvis was normal The cln aldiagnosis was (1) trauma with Heeding causi g acute hematone; hro is (2) con central vet or other snon ly with blending from trauma (1) neoplasm of the pel is of th kill er c u ing hæmatonephrosis

A left lumb tru i in re-realed large or all frent kidnes with a grath distente tipel : Whin the organ wa fr ei th pelvi rupture i fill g the wound with the I and tumor mat rial The ur ter was ti t the nel le leste i twice, a 1 the tumor rem v 1 The juthol g al 1 gn is I lluma of th kal hafum w aroli ! ilr ugh the in 11 n sever I tim s Met tases were f en i in the bo el Death occ reci fou months after the operation. I centi son for autor y could

n t be ebtaine l Cast an ath tofams to) raofage who h d Ind harm t tis tintervals I et enti months On es tose pic exam nat on the that I to as foun I file ! with cl is The I ft ureterst orifice a normal but the right orifice was fill d with a 1 t In I gocarmi e exerction wa cormaton that I ft sid but lelaye lon the right the polygr m I the right wines re realed the in ertio of the uret r ; in outs te the

inver be eler of the pelva h low the preteronel a juncture was net broad The tumor hal grown to ar! the stone away from the kines proper lef rom g the renal pel to 1 left lumbar menso wa male and th kifney wa rem) el with great "if culty The privat was three turn a the pormal but the kil es was not erlarge! It a section

the turn r was I tal fline th pela The pathe kercal tuenes was pupillers carcinoma I the

r nal pel i

that of a man 15 years of age who Lifi complained of a elling of the left thigh leg ad I towel o the & er part of the abil men and pain in the left bin. There was no hematuria polyurs or other u inary symptom. The patient duct in the he pital befor surgery was attempted. tutores re calcil a larg I ft kain y as b con in tion of the left uteter 6 cm from the relya Both preters were occluded by turn et un The black : showed firm us nodes in the mocosa. The pros ate was r g tive All clands were enlatent and there w sobstructs a of the rectum.

Case 4 was that of a woman 23 ye is of age with harmaturia of fifteen months dir to Cristose pe exam nation re val d normal o tis Book used from the ri ht ostiam but the urine from the left was class. The eath ter passed up the right wreter with difficulty. The properties of the night peles showed in the lid latation effacement of the minor calyces and a b al ureteropel no juncture he thre tomy on the right sile revealed a tur ! Illing the ent re pel is. The pathological diagnosis was papillary a mocarcinoma f the clear-cell type In entire over re ulte !

Case & was that of a male who had had hama turn I t one month Cystoscop c examination to scale I a nat illoma of the listler the I it ureter I the left & Iney pelvis Sephrectomy uretered t my and r moval of the bladder section of the

uret t were don Recovery followed H W L W rent MD

Caulk J R : Calculous Anuria At 1 M J 1914 1 1 421

The causes of retenti n or suppression of un e are stone in both kulneys or in one when the oth r is absent or when there is only one ureter comple e d structs in due to disease congenital deficiency or ret I inhibition When the ureter is sud lenly obstructed the kifney becomes agorged adems tous and enlarged Angethetics and the pa sage of the ureteral cath ter may cause kidney inhibition but usually this effect is transitors. True red s inhit iti n ol renal secretion is very rare. An animal with both ureters I gated will de in from four to fi e lays but hum n be ogs have live! for t enty six days with complete anuria Some persons are ill from the moment anur a begins while others appear

perfectly well until uramia sets in Farly diagnosis is essential. The blockage may be relieved h ureteral catheten ation the case thereby being male a better operative rik Sometim's after such treatment the stone will pass spontan eously and operation will be unnecessary

The two methods of treatment are cystoscopy and surgery Atropine benzyl benzoate and large quantities of fluids should be given by mouth Watchful waiting is contra indicated Large stones may be removed at once but the risk is minimized if the block can be passed and the tension relieved If this cannot be done immediate operation is Decessors BENIAMIN F ROLLER M D

Turley L A and Steel J Multiple Miliary Ad enomata of the Kidney Cortex J Am V 4 1024 lxxx 1 857

This article reports a cale in which the kidney condition was that of chronic senile atrophy and miliary adenomata Both Lidneys were smaller than normal and the surface of each was covered with small white spots immediately beneath the capsule which varied in size from that of a pin point to that of a pea

The authors believe that these tumors arose from the glomeruli They draw this conclusion because the general shape and appearance was that of a glomerulus the tumors consi ted of branching and anastomosing capillaries such as those seen in a normal glomerulus there was a definite capsule around the structures and in some cases there were atypical tubules-leaving the structure which were representative of the proximal convoluted tubule leaving a normal glomerulus

HARRY W PLAGGEMEYER M D

Ettorre E Ureteral Papillomatosis (P pill matos u terale) Pol l km Q 4 XXI se chir

Littorre reports a case of ureteral papillomato is in a man 63 years of age The chief symptom of the condition was intermittent hæmaturia thorough urological examination a diagnosis of tumor of the right kidney was made and a nephrec tomy was performed On section of the removed kidnes a pedunculated papilloma the size of a small nut was discovered in the lower part of the renal pel is The tumor was benign in appearance and

did not penetrate the pel c wall deeply The patient remained in good health for a time

after the operation but ultimately the hæmaturia recurred On cystoscopic e amination the right ureter was found to be p pillom tou At a second operation the right ureter was rem ved almost entirely. Three months later diffuse pap llomatosis was found in the bladde

Microscopic examination of the removed p pil

lomata revealed mal gnancy

Ettorre concludes that if at nephrectomy the papilloma is found in the renal pel is th ureter should be removed at the same ope ation When the papilloma is in the ureter thac ureterectomy with nephrectomy is indicated. In cases of pap l lomatous changes in the bladder radium therapy should be employed W A BRENAL

BLADDER URETHRA AND PENIS

Fordyce A D and Capon N B Hypertrophy of the Bladder B & J Child D 024 XXI

The case reported by the authors was that of a 12 year-old boy with enuresis night and day leth argy constination and great thirst. The urine contained mucus resembling the white of an egg The po tmortem examination revealed marked hy pertrophy of the kidneys ureters and bladder. The transitional epithelium of the bladder had been re placed by columnar epithelium. The authors believe that the hydronephrosis may have been caused by the excessive quantity of mucin and that the mucin may have been formed by the abnormal columnar enithelium THOMAS F FINEGAN M D

Wolferth C C and Miller T G Necrosis and Gangrene of the Urinary Bladder Re lew of 153 Cases Including Mineteen Not Previously Re ported Am J II S 024 CL

The authors state that necrosis of the urinary bladder is not as rare as might be assumed from the l terature. The signs are hæmaturia a fætid odor and the presence in the urine of bladder tissue or mucopus It may be impossible to empty the full bladder by catheterization and the flow of urine may be interrupted by plugging of the catheter by the exfoliated membrane In the diagnosis the condition must be differentiated from pseudo mem branous cystitis

Of 153 persons with this condition whose cases are reviewed by the authors sixty five lived and eights four died. In four of the case reports the outcome is not stated

In males evstotomy may be done if the general condition will allow it. In females a more conservati e treatment may be gi en because of the short ness of the urethra

In most cases the cond tion seems to be due to infection circulatory disturbances a chemical irri THOMAS F FINEGR. MD

Lanman T H Indications and Contra Indicati n for Circumcision in Child en B / M &S J

The generally accepted indications for circum cision in the cases of young children are a long re dundant foreskin irritation about the genitals bal anitis enuresis masturbation and nervousness A larg foreskin adhesions and phimo i are not ab solute indications because the adhesions can be separated the phimosi can be overcome by dilata tion and the organ can be kept healths by proper toilet When the penis is very small and the supra pubic fat pad very large postoperative cleanliness is difficult therefore the operation should be po t poned In cases which show irritation about the genitalia circumcision is contra indicated. The lesions are caused by the ammoniacal diaper and troublesome complications may follow ill advised operation at best the lesions will re appear A true

D11 1

the Ma o Clr between (So ar la) 3 am realty of the rest More than half of the sul enemt leaths fr m th id sea e occur luring the first ear redails from desently manine kel vehich it was lar as the to beteet at the time of a seration Property a sults in So per cent of the cases

The fill steel locked District of R covery fr m t to enliat I steetl ne (L. rost I to a clelage d I lett projet ist) la rimalia

L ucaya breview the current met als I te time I rgor rthrea in ca es appears a el asall, a cure l At the greek t turn spector and me is there it I mo tin favor lutt is ever tetall hibelical athen of a persistent fame. It a thet ! tibes the te ha me of a ctin the us ca I the sterry fr mit tretate

If r th r 1 found in the ultue tubes at the ent if the hilosts its per at mi two f ar or even air I al ger a on a wn lly the result are I las I II the canon a us a for all d other is used at I the te twate then made ag ir S veral repet to us of the fists mivibe neversary befre sterile cultur s r obtar f

Stat by become in a be four facility or the et court In surgandurerant there no bet th hine freinf ta these acin it! !! al e ore right and pay to ried and ting and tel repery Il war if th patiert is Lutt nary im stlet et i minith t the

fe at the beauti f coull l in m l fregt i The ere ufirt n

tr atm at should be rushed until there is com etc h metrance of the bacteria a le en of the roy nucle re which in some cases are fu. I in the METER

hou aveci has the rice is ficases shown th grows cus cith rat th bemoni g or din g t e e une like t tirraim nta direces t ungarry se en ter a The go occus na fu d in 3 per e nt of are rently su ed case. The indicates the care that mu t be taken. In thirty cases the cultures were sterde after the first test treatme t and in eles n aft rit seen the threatment

During t current v ar the g n scoreus was f al in a set en of trarently cured cases. This incre se ma have to a lue to the interru tion of sl r n tr te treatm t darn the test imp ove n at in the cultural techniq e or a particularly se ete etica of cases W L Barry

Chute 4 I Dependent Drainage of the P rf resical Rent n J 1 of 1924 1 3 5

In the ! tiled method festable he e l perdent dr frame of the peri excal re wo a small in a co is m to on one set of the per neum to in from the r ! nire ar ! fn m to to ! in ! ow the lawer last t fille a ni hyste a l r cursol clamp B intro u e i fr m alove at the level of the base of the Lift fir i in rut writing is palled back into

Deper nt de nage is i i ted in infecti s n tl 1 the home ten e : al timbe and is more effe ti than ut war lide in ge

Lust ter

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

A oni A Infectious Myosit's (Sull muonte fet ti) Ch dog nidi mon ento 923 11 59

Myositis involves exclusively the fibers sheath and interstitial tissues of striated muscles Acute myositis may be a secondary complication of ty phoid fever or other infection or a primary condition the cause of which is not manifest because the organisms responsible come from a more or less distant focus Polymyositis may be associated with cutaneous lesions nerve lesions vascular distur bances articular rheumatism and alcoholism Lorenz believes that all types of myositis are of bacterial origin and that in the non suppurative forms the absence of pus is to be e plained on the basis of the bactericidal action of the muscle juice or low virulence of the bacteria. Normal muscle tissue is strongly resistant to infection either be cause of its active and assimilative hamolytic pro cesses or the action of the muscle lymph. This resistance may be broken down by deficient nutrition disease of the nervous system trauma fatique or e posure Cold forced exercise trauma etc create an area of diminished resistance which constitutes a favorable medium for the growth of bacteria Dorst found experimentally that fo ty times as many bacteria are required to infect an uninjured limb than are necessary to infect a hamatoma Males are more often affected vith myositis than females probably because they re more often subject to muscle fatigue The condition occurs also more fre quently in the Japan se than in other races

The portal of entry or primary forus may be so small as easily to escape careful search (acne fur uncle eczema a macroscopically healed sca slight inflammation of the tonsil gistro intestinal tract respiratory tract I jump to glands sinuses middle ear etc.) Normal skin pores and sebaceous foillufes contain staphylococci. In econdary myosit the

portal of entry is very evident

Myositis may be locals ed or d fluse and its foci may be single or mult ple. Vette pr man, myositi unas the course of an infectious disease. Usually it unsaides in supportion Early in the condition of the involved mucles fever which may or may not be involved mucles fever which may or may not be preceded by chills and a severe general reaction such as anorenas headache svesty pan in the limbs and gentral veakness. In the supportative stage the react on may be mo e severe be ig characteristic by high fever d arrhor por tration defined by high fever d arrhor por tration defined by the flush of the distribution of the painful and swollen muscles atmosply contract the him him to a characteristic posque "Movement is

Innited and the skin is cedematous. As suppuration develops the center fluctuates and spontaneous opening and discharge may result. Rarely the disease becomes cured without suppuration. Brunon ditinguishes three types. (i) a malignant form with serious general symptoms local muscle symptoms that may pass unobserved and death in several days; (i) an acute form listing from soon descharge and recovery and (i) a subacute form with a local but no general reaction.

In punifient myositis there may be a large solutary abscess dissemulated abscesses or a diffuse purulent infiltration. In fit ton begins in the muscle fibers These become swellen pale pink and homo geneous and show fatty waxy and hyaline degen eration which gove on to complete necrosis and dissolution of the fibers in the abscess. Ultimately the muscle fibers abseath and interstinal tissue the muscle fibers abseath and interstinal tissue and ammanimation complete muscle regeneration and inflammation complete muscle regeneration and return of function result. After severe infection with marked destruction there is a connective its sue cecentre, which is depressed and adherent and

limits function

The diagnosis is based on the presence of an inflammatory swelling which corresponds to the shape of the involved muscle and upon the position of the limb due to contraction of the muscle. The prognosis depends upon the type of the disease. The treatment is surrical.

The author reports a case of subacute myositis of the rectus femoris muscle of the left thigh following a thorn pincl of the left middle froger. The patient had also an old empyema scar. The infecting organism was the staphy lococcus progeness citreus. Recovery followed operative drainage.

WALTER C BURKET MD

Cooperman MB The Treatment of Acute Meta static Arthritis Md J & Rc 1924 c 1 306

Acute metastatic arthmit is usually secondary to a primary focus of infection is some other part of the body. The author emphasizes the fact that that not a medical condition and that body analysis will study as a feed of the condition and that body analysis will study in all least one point unless the treatment is other than that usually given in cases of point in obtenion. Bacteria or their towns irritate the serofibrinous or of the cap the and produce a serous serofibrinous or of the cap the similar thought in the fullmant types of arthmit mant types of arthmit m

The treatment should consist in relieving the introduction and separating the articular surfaces by traction The points should be placed at rest during the inflam

matory stages but subsequently active motion should be encourage! carly The debris in a joint that has undergone destruction should be removed. The author advises cleaning up the primary focus of lat ction and increasing the patients resistance by means of a nutritious diet me lication and sun light.

There should be no hesitancy in a pirating a joint if proper usep is a obtained. The fluid may be aspirated as often as every three or four days and

should be cultured

When the effusion is thick and turbid it may be necessary to open and drain the joint and wash it out with normal saline solution. If puncture reveals put the joint should be freely opened with wide inci; in a Tubes should not ie used as they cause irritation. Active and passive moti n should be continued in ght and day.

In the forms f arthritis in which all of the structures of the joint and bones are involved the treat ment should consist in exposure of the joint curet tage and fixati n in plaster with weight extension

It occess with acute metastatic arthritis in the hij joint are reported. In the first the patter to covered from a severe septic cond tion after operation. In the other the arthriti developed after an operation if a cutte mastorditis and recovery resulted following the use of suitably verible extension. These are the cases hich when improperly or imide quatest treated result in how ankly is with flex not of the himbs r pathological dislocation of the hips.

In connection the the removal of infected foci in the treatment of acute infect on arthritis the patient's resistance must be a creased by careful pre-operative treatment RO ar Lo Eggan M.D.

Rubeska V (norrhead Tend vaginitis During the Puerperlum (Te d agent g no rh m Woch tit) C kå dem t i g 3 63

A 34 ve Told primigravida who had been married nine years had thr eatt cks of eclampsia at the end of nr gnancy The blood pressure as 135 mm Hg and the urine showed an 1b min content of o o per cent. The Stroganoff treatment was instituted During the night the temperature was 30 2 degrees C and in the morning ther were e urrent eclamp tic symptoms. Labor as in luc d (rupture of the membranes Lin n) and a child weight g 200 gm deli ered spontaneously Ten hours it r the de livery the pat nt rists and ankles becam swollen and painful Ther as no r action to the ini ction of milk Treatment with salicylates was also with out effect. The temperature as moderately in creased G orrheea was suspected in sp te of the ab ence of clinical symptoms in the genital a Gono core; were found in the lochia and in the contents of the swelling Phiogetan inj ct ons caused no reac tion Recovery resulted only after intravenous in ject ons of arth gon which c used a ma ked reaction

The strik g fe tures in this case were the early onset after delivery the absence of reaction to non

specific proteins and the unusual localization of the infection in the tendon sheaths of the hand of feet. The rapid onset and localization may be explained by the assumption that as the result of the examptic attacks and the associated labor pains the posococci were carried with placental cells of the protect crucilation and to less resistant parts of the protect crucilation and to less resistant parts of the protect crucilation and to less resistant parts of the protect crucilation and to less resistant parts of the protect crucilation and to less resistant parts of the protect crucilation and the protect crucilation and the protect of the protect crucilation and of Neuburger may be smalled per fine the authors case the gonorrhead infection must have anteclated the pregnancy by many year.

Gross (G)

Kell H A Clinical Study of the Mobility f th Human Spine Its Extent and Its Clinical Importance Arch S g 19 4 vn 6 7

The author decuses the automy development and mechanics of the spine emphasizing particular the action of the single mucles in gation to be written. Be bell est that these small mustles are very directly concerned in the production of scolosis as he has found that when they are electrically stimulated they cause distortion of the spinal column and th

To the first of that the lumbar region of the spread in the dorsal region has probably explaining why the former is more often the site of the primary scol otic curve. Ealer the leves that correction of the curvature is best obtained by traction above and below with the pathent in the supme position to relax the spinal musture in the supme position to relax the spinal musture.

A good point in the article is the suggestion that the spinal muscles may be studied by electrical stimulation Brygginge H Moore MD

Mathleu C Fi Cases of Acute V rtebral Osteomyellti (O të myël te guë v rt b 1 a p po d 5) R r de ch Par 924 xl 56

During recent years Mathieu has seen four cases of vertebral osteomyelitis of adolescence a condition which is relatively rare. One earlier case be

reported previously

Vertebral esteons thus (infectious spondhius) so I too chef types (1) the acute type of adoles cence and (3) the subscrite type which is usually the result of an infectious disease. Mathieu discusses only the first Only about too carse have been reported in the literature to date. The to dition occurs about the essistation center during the growing period from the territor to the first one year. Two thirds of the subjects are maintained by the control of the cases there will be lumbar regions. The touthof the cases there will be lumbar region. The touthout most frequently (3) per cent of the cases) and next in the order named the dorsal certification and scaral regions. One part of a vertebra may be involved alone. The cond tou trends to spread one.

True gibbus such as that of Pott's disease does not occur because severe osteomychtis rapidly

causes death but a kyphosis due to muscular con traction and a compensatory scohosis are common Vascular lesions and osteomyelitic abscesses are

other common complications

Death occurs in 46 per cent of the cases from invasion of the pleuta or spinal canal by pus or from pyzmic infection. Recovery is usual to cases in which the lesion is superfixed. When the lesion is on the body of the vertebra it is usually fatal.

The treatment is sugged! The author favors whe notion of ottomy-thire abscress and treph nation of the hone. Viany surgeons bestate to strate the verterbal bodies fearing infection of the spinal canal. Grasel who collected the reports of fifty three operations, for verterbal osteomy-this found that in forty cases the intervention was confered to incusion of the abscress. Wathirus believes that resection of the affect the body of prevent that resection of the affect the body of preventing little complications and assuring adequate demange. He therefore recommends (1) simple excussion and quentitieg and (2) a transversection.

a containment of the the containment of the contain

Il | Bar \ v

liundling II W Ventral Tumors of the Sacrum S t or 601 924 xx 158

flunding reports a sence of central tumors of the sacrum. These growths which are usuall encap bulated and attached to the periosetum tend to trough the bone. Many of them arise from the remains of the lower neural canal and the postenal rut

Interpatents with ependymal cell ghoma of expertation at the Mayo Clim. Their errage was 46 years One patient was entirel well ten jetts after the operation and one showed impro e ment inneteen mouths afterward but complained of disturbance of function of the bail er and bowels One de do frequirence anne years after the emo al of the growth. An exploitation was made in one ca.e but it proced inoperable and the patient died outteen mouths later of interpation. One it crit had a recurrence two cass after the opera in host was without discound t

Dermoil's were removed in four instances The age of the patents was 30 years. Post ive data were obtainable in three of these Two pat entawere well—one a e raiter the n and one eight years after the operation is a recurrence he vecas after the removal of

were three patients with foreign body tumors. Their average age #2 40 years t was apparently well fifteen months oval of the growth. Almost complet

recovery was reported by another ten vears later. A

Careinoma was found in two instances \ 40
ver-old patient who had an adenocarcinoma was
ver-old patient vith a colloid carcinoma was
markedly benefite by the removal of the gro th

Momata were removed in two cas s. The condition of one patient aged 37 years was impro-ed three years after the operation. The other patient aged 56 years died from recurrence one year later. One patient aged 64 years who had a mosar coma died from recurrence one year after the opera

Another aged to years did from recurrence fritten months after the removal of a sarcoma. The growth was composed of foreign body guant cells with mitosis. One patient had an inoperable bisal cell entitled oma.

The most sait factory treatment const ts in the removal or scraping out of the tumor followed by

Bowing II II Microscopically Proved Sarcoma of the Humerus Su t Cl \ dm to 4 ty 511

The case reported was that of a min aged ay cass who registered at the Vayo CI net in Novem ber 1920 complaining of pain in the right shoulder which had developed follo ving an injurt into ears previou by and had been aggravated by further injury seen months previously. The clinical and roentgenological diagnosis was sarroma and am putation was advised On December 3 1920 the tamor was incred and a large quantity of the tax of the control that ampetation against as so difficult to control that ampetation gains was so difficult to control that ampetation gains as so difficult to and radiation therapy was alvi ed. The motto scope diagnosis was median round-cell sacroma.

During the following year the patient received about 37 coo mgm hrs of ra lum in the wourd and over the upper arm. The treatments were given at intervals of about two months. It the same time V ras treatment was given o er the thorace cavity although there was never any evidence of metastas s to the lunge. During the second vest memorisment of the cave was no le more disjoint by a dermatitis and a persistent di charging anish the former respon led well to textiment and the latter was relieved somewhat by the removal of a sequestrum in August 1922. Thereafter the patient remained under observation returning to the Clinic start is not of three months.

In this root, he returned with an approximation for non-transmit fracture at the site of the dramation area and in August as dark todatum ampounding man and in August as dark todatum ampounding man after the should by non-because of non-transmit disprosist them was muscled assrooms (pertulbed arrangement) ex ensite to mode ment of the upper that of the hundress and complete destruction of home. The suggestion was made that the changes was due to disferentiated to mought about \$\frac{1}{2}\$.

matory stages but subsequently active motion should be encourage! early. The d bris in a mont that has undergone destruction should be removed The author advises cleaning up the primary focus of infection and increasing the nationt a resistance by m ans of a nutr tious liet medication and sun

There shoul I be no hesitancy in a pirating a joint if proper asensis is obtained. The fluid may be aspirated as often as every three r four days and

should be cultured

When the effusion is thick and turbid it may be nec sarry to open and frum the joint and wash it out with normal sal ne solution. If a uncture reveals ous the joint should be freely opened with wide Tubes should not be used as they can e tritation . active and passive motion should be continued night and lay

In the forms of arthriti in buch all of the structures of the 1 int and bones are in olved the treat ment hould on ist in expolute of the joint curet tage and fixation in pla ter with eight extension Iw cases with acute metastatic arthritis in the hip joint are reported. In the first the nationt recovered from a severe eptic condition after opera tion I th other the rthritis develope lafter an operation for acute masto, little and recovery resulted following the u.e. f suitable eight extension. These are the cases which when improperly or inade quately t atc ! result in bony ankyl s with flex ion of the limbs or pathol gigal di location of the

In conne to n with the removal f infected foci in the treatment of acute infection arthritis the nationt's resistance must be a cre sed by careful pre-operati e treatment. I o ERT LOVER AN MID

Rubeska \ Gon rri ceal Tend aginiti During Woche ! tt) C had mil 31 5.

A 14 year old primigray) ly who hall been marrie l nine years had three atta ks of ecl mpsia at the end of pregna y Th bloo i pre ure w s 135 mm Hg and the urine ho d an album a cont at of o a per cent. The Stronanoff tre tment w s instituted Dur ng the night the temperature as 30 2 degrees C and in the morning there were r current eclams tic symptoms L bor was indu d (rupture of the membra L nin) an l a hill weighing 2 200 gm deli ere i spontane ush Te 1 hours after the de livery the pati nt s rist and ankles becam si ollen an I painful There was no reaction t the 1 jection of milk Tre tment with salicylate was also with out effect. The temperature as moderately in ct ased Gonorrhæ was suspe ted in spite of the bsence of clinical sympt ms in the g nitalia Gono couch y ere found in the loch a and in the contents of the swells g I blogetan 1 Juctions caused no reac tion Re o ers result d only after intravenous in tions of arthig n which caused a marked reaction

The strik ng features in this case were the early onset after delivery the abs nce of reaction to non

specific proteins and the unusual localization of the infection in the tendon sheaths of the hands and feet The rapid onset and localization may be er plained by the assumption that as the result of the eclamptic attacks and the associated labor pains the gonococci were carried with placental cells from an of I decidual endometritis through the lunes into the greater circulation and to less resistant parts of the body. This theory was favored by the high anterartum fever The cases of Pery and Bours er and of Neuburger may be similarly explained In the author's case the gonorrheed infection must have antedated the pregnancy by many years

keller H A Clinical Study of the Mobility I the Human Spine Its Extent and Its Clinical Importance 1 ch S f 19 4 1 1 617

The author discusses the anatomy development and mechanics of the spine emphasizing particularly the action of the smaller muscles in relation to the vertebrar He believes that these small muscles are very directly concerned in the production of scolosis as he has found that when they are electrically stimulated they cause distortion of the spinal column

Proof is offered that the lumbar region of the pine is more mobile than the dorsal region this probably emianing why the former is more often the s te of the primary scoliot c curve. Keller be lieses that correct on of the curvature is best obtained by traction above an I below with the patient in the surine position to relax the spinal muscu

I good point in the art cle is the suggestion that the spinal muscles may be studied by electrical BEVERIDGE II MOORE MD stimulat on

Mathleu C. Fi e Cases of Acute V riebral Osteomyelitis (Oste myel te aigue ertebrale i provi d s cas) Rod & Par 1924 xl # 56

During recent years Math eu has seen four cases of vertebral osteomyelitis of adolescence a condition which is relatively rare. One eatler case he

reported previously

Vertebral osteomychitis (infectious spo dylitis) is of two chief types (1) the acute type of adoles cence and (2) the subscute type which is usually the result of an infectious il sease. Matheu do cusses only the first. Only about 100 cases have been reported in the literature to date. The co di tion occurs about the ossification centers during the growing period from the twelfth to the fifteenth Two thirds of the subjects are males In onefourth of the cases there is a history of trauma The exciting cause may vary The lumbar region in volved most frequently (53 per cent of the case) and next in the order named the dorsal cervel and sacral regions. One part of a vertebra may be involved alone. The condition tends to spead True gibbus such as that of Pott's disease does

not occur because severe osteomychius rapidly

causes death but a kyphosis due to me, cular ron traction and a compensatory sections are common l'ascular lesions and osteomy elitic abscesses are other common complications

Death occurs in 46 per cent of the cases fam invasion of the pleura or spinal canal by pus or from pyrmic infection. Recovery is usual a cases in which the lesion is superficial. When the besion

is on the body of the vertebrs it is u ually fatal. The tratism it is surgical. The author favors wide incision of extensivelitie abscesses and treph mattor of the bone. Varay surgeon, be tatle to attack the vertebral bodies fearing infection of the spinal canal. Grasel, who collected the reports of fifty three operations for vertebral osteomyelities frought that in forty cases the intervention was confined to inci ton of the abscess. Mathieu belie extra reservion of the affected bone should always be attempted as this is the best method of prevent tang lace covery cas one, and as uring adequate deamag. He therefore recommends. (1) simple evacuation and curettage and (2) at transsression.

a costofransversectomy or a laminectomy
Two of Matheus patients who had posterior
to tomychitis recovered one after vaccine therapy,
and the other after operation Two who de it had
soften-webtis as of the body of a vertebra. One of the
fafter was operated upon and the other treated by
drainage and vaccines. In those who recovered

there are no signs of a recurrence

Hundling H W Sentral Turnors of the Sacrum S 12 Gyn & Obst 10 3 xxxvii c18

Hundling reports a series of ventral tumors of the section. These growths which re usually encapsulated and attached to the periodetum tend to crode the bone. Many of them attack from the re-

mans of the lower neural canal and the postateal gut. Five patents is with epends mad cell if gims were operated on at the Mayo Clanic. Their average age was 40 years. One patient is as entirely well ten years after the operation and one showed impro e m at mineties months aft reach but complianced of flunction of the bladde and boweds. One of the growth. An explosition was made in one case but it proved inoperable and the patient died forteen months later of intestinal obstruct on One Patient had a recurrence two years after the operation but they will be sufficient to the control of the growth suffer of intestinal obstruct on One Patient had a recurrence two years after the operation but was without doscornible.

Detrionds were removed in four instance. The swrage age of the patients 1 as 30 e 15. Po t operative data were obtainable in three of these cases. Two patients were ell—one a year after the operation and one eight years after the operation. One had a recurrence file years after the removal of the timor.

There were three patients with foreign body giant cell tumors. The raverage age was 40 veris one patient was apparently well filter months after the removal of the growth. Almost complete

recovery vas reported by another ten years later A third patient died after the operation

Carenoma was found in two instances. A 30per old patt in two had an adenocarcinoma was practically well two years after the operation. A 30 pear-old pattent with a colloid carenoma was rank dly benefited by the removal of the growth

Myomata were removed in two cases. The condition of one patient aged 37 years was impro-ed three years after the operation. The other patient aged 50 years died from recurrence one year later.

One patient aged 64 years who had a myosar coma died from recurrence one year after the opera

Another aged to years died from recurrence fifteen months after the removal of a sarcoma. The growth 1 as composed of loreign body giant ceus with mittoss. One patient had an inoperable basal cell epitheloma.

The most satisfactors treatment consists in the removal or scraping out of the tumor followed by extensive radium radiation

Bawing H H Micr scopically Proved Sarcoma of the Humerus S & Cl \ in 10 4 tv 531

The case reported was that of a man aged ay, gean also registered at the Mars Churc in November 1920 complaining of pain in the right shoulder which hal developed following an injurt in 0 jears previously and had been aggranted by lurther injurty seven months previously. The clinical and restigendingstal dispnost was sarroma and am putation was advised On December 3 to 0 the sur removed but the heeping would not only the control that imputation appeared contra indicated and radiation for any was advised. The micro scopic diagno is was mediate round cell sarroma.

During the following year the pai ent received about 55 coo mgm hrs of redum in the wound and over the upper sim. The treatm risk were given at interval of about to months at the same at interval of about to months at the same cavity althouse the same state of the thorace cavity althouse the same state of the thorace cavity althouse the longs. During, the wound 5 cet the monagement if the case 1 as made more difficult by a detimatities and a persist tent of charging simus but the former re-posted viell to treatment and the little was refused 5 met at 5 the tremval of a little was refused 5 met at 5 the tremval of a remained under observation. The creative the patient remained under observation.

In May 693 he returned with an apprently non trauvante fracture at the size of the draming area and in August a disarti ulation amount on any and in the behoulety not because of north and the development of an uler. The pathologic diagnosis than 100 million arrangement) exten ve involvement of the upper third of the humers and complete destruction of boor. The suggest on was made that the change was due to differentiation brought about by the

radiation therapy Further X ray dosage was given over the shoulder and thoracic cavity Three years after his first registration, the patient was in rood health there was no evidence of metastasis and he apparently had prospects of long life

Deniker and Mouchet The Syndrome of Yolk mann a Ischæmic Contracture Following an Injury of the Arm Without Fracture (Syn d m de rétract on is hém q de Volkms n'à la s te dun t umati m du bass n fractue) B !! t mem S c not d ch 024 1 76

A young woman had her left arm crushed up to the shoulder between two wheel of a machine. A large hæmatoma resulted but there was no open wound or fracture The hamatoma was evacuated by puncture and the arm treated by massage and warm baths At about the fifteenth day the third and fourth fingers became flexed spontaneously Continuous extension of these fingers was establ shed by means of rubber ban is with the hand and fore arm immobilized in extensio As the apparatus was poorly tolerated its removal was necessary Comp ession on the wrist and flatly extended hand was then instituted. This resulted in progressive improvement. The functional result is satisfactory but as the anatomical correction of the fingers I still incomplete treatment is be no continued

Experience has shown that the results of operative attempts to correct Volkmann's contracture are rather medio re and not permanent. The best results are those obtained with treatment similar to

that given by Demker

An interesting fact demonstrated by the case reported in the rticl is that Volkmann's contrac ture may be cau d by infiltration of blood in the U. A BRENNAN muscles

Henderson M S Osteochondromatosis of the H v Joint M n s ta Med 924 1 261

Osteochondromatos a has been ascribed to infec traumatic embryol gic and neop ast c causes. Most writers have been inclined to repard infection as of little importance. Some of them however including Bolton Hal teau Peichel and Hahn favor the infection theory Jores after re viewing the I terature and the cases n the Mayo Clinic concluded that infection does not play a part of any consequence in the etiology Trauma has been stressed by certa a writers (Humphry Davi Carothers Henderson and I sher) as an etiologi ! factor and in e ght cases J nes found a defin te his tory of trauma which in the majo its p eceded the discovery of the loose bodie by a long time

Whitelocke Lot h Henderson and Fi ber em plastze the fact that all of the tissues involved in this process are developed by differentiation of the same mesenchy mal tissue During de elopwert n the embryo some of these cells deg nerate to form the joint cavity some differentiate to form the joint cartuage and some differentiate to form the synovial This embryological theory is closely membrane

allied to the neonlastic and must be accepted as a basis for a discussion of the latter

The loose bodies in osteochondromatosis may be formed in any portion of the synovial membrane They may begin as osteomata or chondromata. The cartilage may be hyal n fibrous or calcified or a combination of these forms Bone in the loose bod es ma) be developed either directly form connective tissue by the membrane method o by preformation in the cartilage The most typical form is a spherical shell of bone surrounded by cartil ge and fibrous tis ue and filled with va cular fat and spurs of bone The bods s are at first attached by pedicles through which they obtain their blood supply As the result of the increase in their size and weight and the na tural triuma associated with io nt motion they finally break their pedic es wanders g then as free l ose boles The question as to whether they r ceive sufficient nourishment from the syn vial fluid to increase their size has not been definitely settled but the fact that in examination of a section of a free body the outer layer of cartilage is found in an excellent state of preservat on the nuclei staining well whereas deep r in the body the cells show eve dence of degeneration lends we ght to the theory that they do reces e their nourishment from this source. It seems probable although it has not been proved that under these cond tions cartilage may proliferate. In the detached bodies the bone is invariably necrot c whereas in the attached bod es with a blood supply growing bone is found

The symptoms vary with the joint invol ed The author reports a ca e of osteochondromatosis of the hip in a boy 13 y ars of age whose general condition was good. As there had been trauma when the patient was 6 years old and several times since trauma was undoubtedly an etiological factor Locking of the joint occurred By an ant rior inci s on thirty one loose bodies were removed. An elargement resembling an e ostosis could be f lt anter only at the point where the synovial membrane wa r flected from the antenor intertroch nteric line This appeared to be the main s te of origin of the loo e bodies but se eral were remov d from the upper border of the acetabulum where the synovial

membrane was effected from the bone

In a fnotnote the auth r states that since he so t this article f r publication he has on ated on an other pitient with loose bods s in the hip remo ing by a posterior neis on twenty se en loose bod c fourteen of which were attached by ped cl s and thirteen of which were free

Richards T K Evul i n of the P terior Cruci i Su 8 924

The author reports a ca in wh h a man running inju ed his right kne when he suddenly twisted his body to the right when his foot was caught firmly in the ground The leg w s h ld in fle ion of 30 degrees but the tibia could be otated inward and b ckward on the femur

The \ ray showed an increase in eparation be to een the tibia and femurand an irregular rectangular opening on the internal uperior aspect of the intra condylar notch at the site of attachment of the posterior crucial ligament

The knee was completely extended after thirty six bours by the application of elastic ban i es on a ham A plaster cast holding the leg in hyper exten ion as left on for three weeks and after two months the patient we able to walk vithout a limp CHISTER C GUY MID and without support

Morton D J Med and m of the Normal Foot and of Ft t Foot J Bo e & J 15 1 924

The most important factors in flat foot

Faulty po ture of the os cale and improper ditribution of the boly ei ht

2 Support of the light by the plantar is aments 3 Almost directly Internl movement

4 Bone changes

The treatment depends up on whether the con dition is a functional or structural deformity

Arch supports should be regarded as splints. As such they are of great value in the treatment of foot troubles but their prolonge i u c like the use of splints on any other tart of the body leads to weak ening of the structures b caus at supplants normal function restricts joint mov ment and compres e important plantar ve sel and soft structures. Al ternate hot and cold fo t bath with massage a e very beneficial. In ad anced cales of deformity operation may be indicated but must be regarded as an extreme measure as many method have been tried and di carded as unsat stactory Tenoplasty of the re d n of Ach lies 1 almost mya rably indicated

The article contain xteen llu trations S C WOLDS BER MD

Lecène P and Mouchet A The Tarsal Scaph o ditis of Yo no Children (L s ph d te ta end je enit) Blimm Socnid h 94143

The condition discussed by the authors was first de er bed by Koehler in 1905

On l power in a oscopic vam latio of sections of the scaph dremo d na a e re e tl operated upon the cartilage appear d n rm 11 ut the medul lary pace of the pongy ti sue of the bone were greath end ged and in part filled with a very ft us nd ascular m tulla. The n dulla v tissue h ved a zone of i flammat on id n cosi On h gher magn fication the necrot in lullary nodule appear d to be composed i numerou pol nuclear and m nor ucl reells sur und ng mas es of cellu lar d b is The neight oring t ssu v as fibrous and ell as ularized

In the authors op ion the ond ton san atten uated o teomyelt's with the fination of small n rotic are s Th exc i e calc n at on of the aphod the chif cha teriti of the It s pictur they belie e a a re ct on of defense of the b ny tissu II I BENAN

SURGERY OF THE BONFS JOINTS MUSCLES TENDONS ETC

Hazs S L. The Importance of the Perlosteum and the Indosteum in the Repair of Transplanted Bone 1rch Su e 924 VIII 535

The author gives an excellent review of the litera ture regarding the experimental work that has been done to determine the function of the periosteum in the repair and regeneration of bone and reports the results of his own experiments. In the latter a metacarpal bone was remove i from a dog s paw fractured and then re implanted in its n rmal bed or in muscle in some other part of the body. In one series the periosteum was removed in another the endosteum an lin a third both the periosteum and the endosteum

Union of the fragments occurred in some of the first and second series of animal but was not in variable. In the third series it occurred in none

Haas concludes that the presence of the perio-teum or the endosteum is necessary for union. Interference with either reduces the chance of union and destruction of both entirely prevents union BEVERDEL H MORE MD

Strunsky M. Adult Torthcollis Report of a Case JB e- Jont S g 9 4 7 461

The author emphasizes the fact that whereas in congenital torticollis in infants the results of opera tion are u ually good in adults there may be a bony ankylosis of the cervical vertebræ after operation and the asymmetry of the face may remain uncor rected or may be exaggerated. Therefore in adults all contracted muscles and fascie must be divided and stretched and the overcorrected position main tained until all tendency toward recurrence has been overcome CHESTER C. GUY. M.D.

Radulesco A D A New D ito commissural Operative Method of Treating Concentral Syndacty in (In nou eau p oced operatore d stoce mmi ural comme it tement de la vin d ctyle o fast le) Re doth p g 3

Operative methods u ed to dat for the treat ment of syndacty lism have the disadvantage that th re 1 a tendency toward sect ndary coalescence of the fingers and insufficient nutrition of the autoplastic skin flaps

Radulesco describes his method of avoiding these mishane For the section of the dorsal flap the in cision is berun in the immediate vicinity of the extremity of one tinger carried parallel to the in terdigital line as far as its middle point and then pa sed diagonally onto the back of the other finger to the vicinity of the interdi ital fold. The inferior part of the n 1910n recurring in a U on the back of the hand circumscribes the future interdigital commissure in such a way that the extremity ascends alttl toward the base of the first finger

For the palmar flap a similar incision is made on the other side of the hand

INTERNATIONAL ABSTRACT OF SURGIRY 356 After di section of the flaps the fingers are sena

rate I by a longitu haal incision terminating at the level of the other inter inital fol L. Figure 3 shows the method of suturing



kan lailaled-secti f d real flap 112 2 Indl It heetler Indu ef e If the lof sutu i g

The bandaged hand is put in an electric thermophore at a constant temperature for at least forts eight hours the forearm being fixed in flexion on the arm. The dressing is renewed to days after the peration in order to determine the condition of the flans and to remove the gau e compresses which become I rm and hinder the circulation in the flare he pres ure

The method ei es a good skin to ering of the intend gital fold prevents recurrence and assures a leguate nutrition of the flare the ugh their cros ed B A BEE AV pedicles

Lo ett R W and Brewster A H Correction of Structural Lateral Curvature f the Spine I reliminary Report on a Method (Treatment 1 1m M 1 tgre le i

This article deals with the treatment of tructural scol sisty a new m thod of u ng a plaster jacket The old methods of treatment such as gram at exercises and many ulation or the use of jackets or apparatus alone are e ndem el as meff tive Tho e which expend the r for e in pressing his city against the apex of the lateral urve the keystone of the arch are last long for me h n al principles

With their jacket the auth is attempt to e ere e corrective pressur on the curved spin so that th en a of the curve are spread the apex of the curv being used as a point of resistance I een se of the construction of the jacket m rked distraction or pulling apart is exerte i on the spine at the point of gre test curvature

The jack t fis ery accurately and is applied from the axillæ to the trochanters Opposite the convexity of the lateral cur e n is livid d trans versely. It is pro thed with a troad hinge on the convex side of the curve opposite the spex an l a turnbuckle on the opposite side at the same level to provide the spreading force

Because of the pressure this corrective tacket cannot be worn for much more than an hour at a time. Hence a second ret ation jacket made some what on the same principle is provided to be worn in the interm

In some cases immediate correction and n er correcti n with diminute n of the rotation element can be obtained

Presumably the method will not materally correct cases in which anky losis has occurred It is best in cases with a moderate curve in or below the mid forsal region HERMA C Senercy M D

Grantham S A A M thod of Implanting the Bone Graft in the Spin J M I I Mile M A 1 1924 XI 107

Crantham advocates a small transverse incision for the implantation of I me grafts into the nine A special esteotome is introduced to the level of the I we of the spinous processes and the latter are then sheared off When the graft is placed in the tunnel thus formed it is hill by the lumbodor sal fascia and muscles without fixation by foreign substances I. I Braki cises M.D.

Dunn Nr. A.N. to on a Pos ible Sequel. After Operati n f r the Remoral of the Intern t Sensitunar Cartilage J F & J nt S f 10 4

In the usu Tracisk a for the removal of the internal meniscus of the knee & int the tatellar branch of the internal sanhenous nerve is divided. As a rule it is ion of this perve causes no unt war I s motoms acept a temporary lyss of sen att n in the infra pat il r reg n Howe er in a small perc ni ge of cases a painful neuroma my form i the car and cause p in on fexion of the | 1 Fx1) n of the car may be suff event to cure this e nist in but th mot satifict in treatment is excit not it scar an in ul son of the ner w

uroma of the int mal saphe u r ree m s explain certain ex s of inc mplet reco erv after removal of the internal sem lunar cartilage. The danger of this seguela may be obtaate i by retraction of the nerve or e rules n of its proxim 1 ports n at the time of operation D TEL II LEVINTE L M D

Stern W C Patell pe y-4n Operati n for the Rell f of Paralysis of the knee JB & J !

5 r 04 1 450 In the effort t provide ubst tute fr the

paralyzed quadrices a muscles three preclures has been used 2 Operations to pr duce bony a k lo s Th e

are object onable before puberty be au th d's turb growth Tr psplantati n of the ham trings into the

This requires strong hamstrings and a natelia straight Lace 3 Supracondylar osteotomy of the femur a d

fixat on of the lo er fragment s that we ght bearing will tend to and hyperestension

Condutions are ideal for tendon tran plantation is hen there as about stone; tendon working on a short lever and not running through soft tissues. Sterns method a certical mession is made and the anterior surface of the patellis is denuded down to the center of ossification. The patellis is then votated it down to the part of the patellis is the rotated at the first too a tell long are so that its denuded surface is not as the prepared for it out to deep " so its long are so that its denuded surface is not as the prepared for it outcomes to the patellistic state of the patellistic state is not as the patellistic state is not patellistic state in complete sateragon for three months and a caliper is worm for three months more

Stem believes that the patella and its tendon will grow with the cupplyss. If I does not the tenderics will be toward hyperestension which is not object tomable. This operation is undicated in cases to paraly, as of the quadrices cases of machist to walk without thraces or to hold the leg fully vetereded and cases in which transplantation of the hamstrings i unsuccessful or understable.

CHESTER C GUY MID

Stuart F W Claw Foot-Its Treatment J Bo &

Examination of a series of cases showed that there are two definite types of claw foot (1) that in which the first metatarsal head can be replaced and

(2) that in which it cannot

The condition of the tendou of Ach Iles is important. This tendon may be normal contracted or lengthened If it is lengthened which is sometimes the case because of a pre-ious tendonny it allows the heel to drop this causing an increase in the height of the arch. In the earlier case simple dit is not the plantar fiscus and were thing will be suff cent to reduce the deformity. In the later stages it is necessary to divide all structures down to the home to Stendiers or operation or one of its modifications.

An inc suos from \(\times \) to \(\times \) in long is stade on the more side of the foot with its center opposite the inner tubercle of the ose calcos. The skin and subcutaneou fat are then separated from the plantar listed by dissection as of a percosteal elevator \(\times \) in section in the second of the section of the plantar listed by dissection as of a percosteal set after \(\times \) in separate set of the section in section in section in the second of the seco

This operation has been done with autsfactory results but an equally satisf ctory outcome his been obtained by many of the conditional to who can be conditional to who are the chief immediate and state of Strendler method here in the first that all the conditions of the sit cutting from the skinn suffering the state of the sit cutting from the skinn suffering the state of the sit cutting from the skinn suffering the state of the sit cutting the sit cannot be on the sit cutting the sit cannot be often and by disting with a tenotome. Ca e must be

taken not to place the wrench too tightly on the foot as the may cause serious injury to the tarsal bones The wrench is sufficiently tight when the upper har lies across the neck of the astragalus and the lower bar behind the first metatarsal head Ir can be maintained there with the left hand placed on the upper bar Downward pressure is made on the ur per bar and upward pressure at the end of the handle Overcorrection should be simed at as the deformits tends to recur. If the toes are acutely fle red and the flexor tendons prevent their extension they should be tenotomized while the foot is held in the overcorrected position with the wrench Elonga tion of the ichilles tendon at this stage is to be condemned as it practically undoes the straighten in that has been obtained and frequently ends in complete relate . It must be borne in mind that we are dealing with contracted sole structures not with contracted call structures. The stretching of the tendon which occurs at the time of wrenching is sufficient. The tendon should be lengthened only as a last resort and when absolutely necessary

The after treatment consists in allowing the patie it to salk with the leg in plaster as soon as the pain has entirely disappeared. When the wound is healed after Steindler's operation this should be rootigated for two months. An ordinary shoe with a biracross the treat should then be worn and a removable plaster at night. Re education of the misscles and missage, with stretching of the blanks structures

are e sential for a good result

In the second type of claw foot that in which the heads of the metatarsals appear as a convex pro j ction under the skin of the tread attempts to flex the metatarsophalangeal joints produce severe pain For the condition Stuart performs the following operation

The mediotarsal joint is resected the whole sca phot l is removed the extensor proprius hallucis ten don is transplanted to the first metatar-al head and arthrodesis of the first interphalangeal joint is don A curved incision is made on the outer's de of the andle and foot with its center opposite the reck of the astragalus and carned down to bone An L. shaped ricision ; made over the first metatarsal head and the interphalangeal joint. The dorsal to sues including the skin vessels nerves and ten dons are divided in a flap by dissect on across the foot to its inner border. The mediotarsal and s aphocunesform joints are opened by di is on of the I gaments connecting them on their dorsal and inner aspects The scaphoid is then removed com l'ételt by in erting under it a gouge which divides the plantar ligaments

The head of the astragalus and the cuneiform bon are stropped of their cardiagnous curious with a thun shell of bone their natural contenting preserved as much as possible. The same properly is performed on the calcaneoushood joints. If the private face a stop prevents proper alignment it is divided at it is stage. An assistant them holds the food in its new position while the cardiage is removed from the adjacent surfaces of the interphalangeal joint and the tendon of the long extensor of the great foe is passed through a tunnel made for it in the first metatarisal head. The wounds are then sutured and a small counter-opening is made below the angle of the larger for drainage.

A tournquet apple of during the operation is rounced before the complete closure of the wound from ord before the complete closure of the wound if hemorrhage proves troublesome an injection of salme solution at a temperature of 120 degrees F is given Dyrssings a c applied and the foot in placed in a plaster cast with the loss straight. Windows are cut from the plaster cast over the wounds. In closions are made on either sade through the entire thickness of the cast to ithin a short distance of its extremities and the salke joint. In this manner allowance is made for swelling and removal of the cast is facilities.

At about the seventeenth day the plaster is changed to allow moulding of the foot if necessary. Waiting in plaster is permitted at the end of six velks and is continued for six months. An ordinary shoe with double iron may the abe worn and re-education and massage of the muscles is begun. By the end of a year the iron i discarded.

S C WOLDE BERG M D

FRACTURES AND DISLOCATIONS

Rehn E. Fracture and Muscle (Γ ktv. und Mus k l) Ar k f kl. Ch. 923 cx. 1 64

The influence of the involved muscles on the healing of a fracture is a quest on as yet I tile investigated Electrical study of mu cles in different types of fracture has shown that the muscle directly dam aged by the injury exhibits at first diminished irritability and then increased irritability first stage which lasts about eight days i tle so called muscle stupor due to the pain reflexes The stage of increased irritability lasts through the end of the fifth week The protation from the trauma and crushing of the muscle substance acts through the sensory nerves as a motor stimulu on the muscle The first p ocesses of fracture repair (capillary proliferation and union between the periosteum and musculature) can go on undisturbed during the period of muscle stupor while the reflexly dete mined muscle irritability which ber us on the e ghth day and continues for four weeks is present at the beginning and during the highest intensity of hyperæmia and callus formation and constitutes an important stimulus. It was established further that paralysis of the mu cles and artificial separa tion of the activated muscle from the sheath of periosteum inhibited the formation of callus by the nenosteum

On the basis of these findings t is evident that procedures which may damage the muscles dute ly myol ed in the healing of a fracture slould be avoided as they will produce additional mu le stupor Correct reduct on should be effected at the first attempt Large barnatomata and fluids

unsected to increase callus formation have an injurious effect when they intervene as a separatinglayer between muscle and periosteum. The muscle should be stimulated early by such procedures asinner, atton passive extension and stretching and later active movements. For cases in which open reduction is necessary Rehn ad isso operat in performed soon after the disappearance of the muscle stupor. After separation of the muscle from the periosteum himotats in the effected carefully periosteum himotats in the effected carefully periosteum himotats in the effected carefully be as a feeding and the sere in go on of plates should be as a feeding and the sere in go on of plates should be as a feeding and the sere in go, on of plates should be

Segments of bone 1 hich offer broad ar as for the attachment of muscles are factors favoring healin Portions of bo e that are subjected to the stra n of tendons incline toward the formation of pseud arthroses

Smith M K The Progno is in Ep phys al Line Fractures A S z 50 4 lgs; 227

Epiphyseal fracture s are common but are often mistaten for ordinary fre turnes or it very slight for sprains Deformity for each results because of premature consideration of the epiphyseal line which when solid stops the growth of the bone. Injury to the shift however stimulate growth this explaining the increase in the length of a short leg alter fracture with shortcaing.

Smith a article is b sed o a study of thirty three fractures lower radi I twel e low r humeral ten lower (that four upper humeral three I) er ulnar

two metacarpal two

Five cases of lower radial fracture showed short ening three with prem ture ossif cation. In only one was the disability sufficient to warrant class or the result as poor. In this case beginn g ossif ca tion was noticed eight months after the injury and there was I in of shorten ng In f ur other cases the shorten ng ranged f om 36 to wrist had g od function. In seven cases there w s no shorten ng nd function was e cellent extent of the injury as shown by the riginal defo m ity does not seem to be my criterion as to the end t alt In two of the cases t th shortening the original separat on was so slight that reduction wa not necessary. In nec se with injury t both in t but with ep phy eal displacem nt on one s de only the re ult fer three years was shorten og on the side without displacement and a no m l wrist n the other id

Reduction should be done of course if the njury is recent but seems to be no go a rate of a good late result. The ag s of the fi patients with wrist in just as with shortening vererged it cars while those of the seven path that sufficient in the rate of the seven path at sufficient in the rate of the seven path as with rest inpur's it has the result in the rate of the seven path as the seven path as the seven which is the seven path as the

Of four case with epiphy all fr cture at the! er end of the tibia two showed retard d g owth and

none premature ossification. Three cases of upper humeral fractures are reported. One that of a 16 vear-old patient required open operation for reduction and at the end of two vears showed normal function except for slight I mitation of injerical rotation. In the two others there was recover with zool function but in one there a vis high shortening

Oi the total number of cases except the lobumeral fractures (seen on on all) seen show edretarded growth and lour showed premuture oscation. There were the cases of los humeral fracture. One showed premuture ossification after to years but good function. In another case ossification seeme! to has e been hastened by the nighty. Another showed in oil ingithering on the injury. Another showed in oil ingithering on the injury last and groupselve delivers to the function. In all of the results, ere we

On the whole there seems to be a tenderer in natural correction after unreduced epiph seal separations. Retardation of growth is seldom compensated fatter. William A. Clark, M.D.

Fairchild F R Some Practical Suggestions in th Treatment of Fractures C / for a B / W d

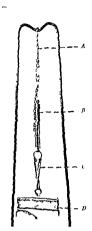
Every fracture presents a problem in itself an i its relution with the aid of the \ray is a matter necessitating the use of common sense the at placa tion of mechanical prin iples and the careful choice of the method of effecting reduct n in c ordance with the requirements of the particular cashead of the lit of pra tical ppliance in tractur work is the Thomas st lint. This must be carefully fitte! The shafts should be made 1 18 n Nors a from which is str ng yet malle like This splint i the m st satisf tors applian e for the correction and fixation of fracture I agm its t permits movement of the 1 mb access t an wound and \ ray examinati n Continuou traction is best made by means if moleskin t pe at 1 1 d rectly to the skin

In case of ununted for the cs in wh, bostrogen et clunct in s i 1 in it slding rule g in usgraff gre the best realts. When int posed soft its user re pon thele for non unit i plate or foreign material is not in them I es by thind I nesses of fracture to nor it helbs frequencies when a manufacture to the season of texture is the same not of tain if a successful reduction. If the same not of tain ble pen operation for the replacement of the fragmental in the left [1 rate (4 MD)].

Whit J W Intrin ic Splint Traction Rot M

The a hantings of the plant to the legal results in maintaining a desired mount for the recurst in a urement of the legal replaced and lease lappil as in adjustment and tran joritation. The truth on a product and appled within the

lim t of the spl nt. The bas's f the apparatu is a Thomas leg spl nt or some modificati n of it. It



Ship or giment the three limens; Jucing the traction need to the distribution. The spot of rind to the too the distribution for Thomas pit j and the too the distribution of the form B as B as B by ping blind how no graduate the distribution of the spot form of the spot

should be long enough for at least 2 it bets een its distal tip and the apt aratus tixt i to the extremity. The pull 1 exerted an i maintained by three ele-

ments arranged in series one end of which is at plot t the d tal extremity of the fit t and the other end to the app arratus att ched to the limit.

The proximal el ment in the series is a bunch of

rul ber bande. To the e fastened a spring balance with a sapa at yof a g in and to the other end of the spring i hooke la metal chain of the type now u c in beave win loss. The chain pass concer the disalent f the clust and is booke lack on the cale. The c mit nation of land s and languages with a given traction for a in beford period.

The legis apported by the u ual tran cree slings.

atta bet to the bars of the silnt which itself is supported to some form of adjustall upright fixed to the foce of the bed or the Bradford frame. If human beings

pressure on the ischial tuberosity becomes unbear

able the foot of the bed may be elevated.

The apparatus is very efficient. It exerts sufficient measurable force to prevent overriding or separation of the fragments.

In Mirrorit. M.D.

Davison C. and Chri t pher F:Th Use of Boiled Beef Bone Intramedullary Pegs in the Frac tures of Long Bones An Experimental Study 5 : Gym 6:06 1 1924 x 11 534

In the hope that further light might be shed upon the desiral lity or undesirability of the use of boiled beef bone as an internal spl at in fractures a study was male of the fate of the intramedullry boiled beef bone peg in recent fractures in dogs

A standard operation was determine I upon With the exception of the first I w the operations were lone under the mot I shorable circumstances. A bost tal roc m with a full complement of internes an I nurses was placed at the authors disposal and the technique used was the same as that employed for

Mer the animal had been complet by anesthet zed with ether the upper jart of the foreleg and the shoulder were witely shave I and dired with sleohol and ether and painted with full strength lineture of colone. The animal was then draped. Vongtud nal incision was mis le over the upper jart of the forel g and I the mustles were retracted with care in I to

injure the musculo piral nerve.

After the humerus had be n e posed for a distance of 5 or 5 cm a Gigli saw was pased un fer it and the bone was as ed through at right angles to its axis. The two sawed ends of the humerus were then I rought in pinto the wount and the marrow cavity, was lightly curretted out. The beef bone peg used hal be no bull for all exit two hours and was of a size to fit lightly into the marrow cavity. In the form the same of a size to fit lightly into the marrow cavity of a size to fit lightly into the marrow cavit in the form of the same of the same of a size to fit lightly into the marrow cavit in the other than the same of the same

pressure
The length of each peg was at least twice the with of the bone into which it was inserted. More both fragments had been a pred over the peg and approximated it le fractured bone was held together rigilly the mus les and subcutaneous tissue were approximated and the skin was carefully closed.

approximated and the sain was activated when Collodion was painted over the wound and after a drea ing was as pile 1 a sing plaster cast was put on to include the neck the shouller the bet and the entire foreleg except the paw. The casts were generally removed at the eighth week and at the drested dates the animals were killed with ether.

Thirty is animals were operated upon. The results are shown in reenigenograms and photomicro graphs. The authors conclusing are as follows.

1 The 1 art of the bol 1 beef bene peg s hich remains in aseptic at 1 le contact with the endosteum

of its host surrounded by living bone becomes solid by embedded in new bone undergoes gradual absorption and is replaced by new living bone which is in turn absorbed later.

The part of the beef bone which has between the fragments but is not protected by en lo teum and not covered by hiving bone undergoes rapid absorption and disintegration and is not replaced by living bone even when its surroundings are ascolic.

3 When one end of the beef bone peg is not fixed in stable contact with the endosteum but remains in position there is absorption of both the peg and the surrounding live bone

4 When the mechanical first on holds an 1 is asceptic the internal callus is immited by the beel hone peg and does not bri ige the 1 ne of fracture. The external callus is markedly lesse ed. The per manent or definitive callus as inhib ted.

5 The series of experiments reported dd not roduce a singl successful anatomical and func

tional result

6 The causes of failure were (1) infection (a) divengagement of the peg due to () failure in the merhanical reduction (b) facts of continued immobilization and (c) loosening of the repair by absorption of the peg and surrounding live bone (3) integration of the peg from absorption of the loc of frequency.

A repair apparently mechan cally perfect showed a good result as long as the peg remained strong enough to sustain the bone. When disintegration of the peg occurred at the line of fracture a point of mobility was I und

The end results were either permanent non union or literal un on usually in malposition

Oudard Recurrent Antero-Internal Di location of the Shoulder (La | tu recidi te de lepaul variete antero-ntern) J d ch 1924

To present recurrence of antiro internal dislocation of the shouller it is necessary to correct the listity of the joint by c. psul. Takphy and to form a bone stop on the humeral hea! Some action must be taken also with regard to the subscripul: mustle which has an important part in the retention of the humeral head. To approach the mustle the deton must be crut: ten below fee clavicular user on 2t is necessary also to lover the correction per perfect of the control of the control of the research of the control of the control of the vasculoners of p. ket are turned back the subscapular must less widels expose 1.

In order to create a bone stop a graft 1 interposed, between th be a and the aummnt of the c racoid process. By means of a graft 3 or 4 cm in length the coraco 1 process will be ufficiently elongated to oppose any forward proje two of th humer 1 head the long the stop of the process will be a long to the oppose any forward proje two of th humer 1 head the lowering a first must be so that the profit will withstand sole 1 movements and the lowering a first must be will not consume the consumer of the stop of the must be will not consumer the consumer of the stop of the must be will not consumer the stop of the st

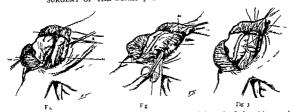


Fig I The set u ned d load s d wan b ck to poethe c racobi ps D deltod C c a id Gp pectoral smaj. Lpb 1 gpot n f the b ceps Fig 2 The closed sc sors tra ersing the joint behind the subscapu! m sele Se summit of the cor cod pro-

ce tu ned back with the muscle. Be b se of the coraco d pr ces 1 1 e of inc ion in the subscapul r mu cle. Fg 3 G aft interpo d between the ba and the s must of the co acoid process t will be surrou ded by ste persosteal grafts.

(O d d R c srent A tero-Internal D l cats fth Shoulder)

The author claims that the results of this method are considerably better than those obtained by others

WA BRENNAN

Schlarpfer & Uncomplicated Dislocations of the Shoulder Their Rational Treatment and Late Results Am J 16 Sc 19 4 lvvii 44

This article is based on experience in the treat ment of dislocations of the shoulder at the Surgical Clinic in Zurich Switzerland, during the last twenty years

Shoulder d locations constitute 52 per cent of all joint d slocations and occur most frequently in midd dle age and more often in males than in females. In the 120 cases reviewed the dislocation was an terior in 94 per cent and the most common anterior d slocation was of the subcoracoul to the

Nerve injuries occut in about 4 per cent of cases fromeian used the Schnainger method with the Korben modification. The latter became the routine procedure of Sauchruch As a raile no anaesthesia is required. Autimnt found general anaesthesia is required. Autimnt found general anaesthesia is required. Autimnt found general anaesthesia is required. Autimnt found general anaesthesia is required. Autimnt found general anaesthesia is required. Autimnt found for method from a sing for from one to two weeks and then un a sing for from one to two weeks and then un a situated daily massage and traction. Saurchruch abottened the period of immobilization to a few days. In the cases reviewed by the author the time necessary for healing was about thirty days. The contraction of the period occupations without any complaint in about thirty eight days.

Marbaix compiled statistics which showed clearly the illeffects of immobilization. While they were car fully compiled and are thoroughly convincing his method has not been generally accepted probably because it is regarded as too drastic after such a severe injury

The author concludes that no bandage should be spipled following Kocher reduction and that active and passive motion should be begun immediately in 157 cases treated in this manner the dislocation did not recur. Complete cure should be obtained in form fourteen to eighten days In neglected cases reduction; possible even after a period of weeks put first, found that after mine weeks it could be experience delay in reduction, always resulted in permanent insurament of function always resulted in permanent insurament of function and an accordance of the contraction of the contrac

ROBERT V TUNSTEN M D

Thiery P The Functional End Result of an Un reduced Dislocation of the Shoulder (Pésult t fonct on 1 et gas du e lu atton de lépaule non réduite) B ll t mem S c not d chr 924 1 160

In the case reported that of a man 61 years of age the right shoulder was oblocated un rots of an either not reduced at that time or subsequently redusorated. The condition caused arithmits and marked crepitation Five months later the pattern was able to resume light work Six months after the injury he was working as before the accident the injury he was working as before the accident he most of the arm

Thier, remarks that if he had treated this patient ungually he would doubtless have attributed such a remarkable functional result to the operation In conclusion he calls attention to the fact that operative attempts at reposition in cases of old dis locations are often unsuccessful and that resection of the humeral head ' hich may be necessary for operative reduction in such cases is frequently followed by serious functional disturbances W. A. Repression

Ellason E L and Hinton D Complicated Frac tures of the Surgical Neck of the Humerus Si g Cl V 1m 924 tv 99

In two of the six cases reported open reduct on was resorted to because of poor coaptation of the fragments due to the interposition of soft parts and hone fragments. In both metal plates ere used The authors emphasize the importance of fitting the screvs snugly into the bone. They make the incision over the lower end of the upper fragment and after effecting reduction place the arm in a position of equilibrium in which muscle strain is minimized during immobilizati n. Todine gut is used to close the skin a small rubber tube with a silk thread pilot being left in the lower angle of the in cision. The thread is brought out through the dress. ings so that by pulling on it the drain may be re moved after forty eight hours without disturbing the dressings The wound then needs no further attention until the arm is remo ed from the cast In the two cases under do cuss on the arm was put up in abduction on a triangular splint and union and function ere good after four months. The plates were not remo ed

In two other case the fracture w a complicated by subcoracion disboation of the head of the survey of the survey of the survey of the himmers. In one cale reduction as effected by a rail traction on the arm and upward present between the chest and the disboated head. In the other case aft mgas at manapulative reduction to the disboation were unsuccessful and open ope a root was contain undicated by the patients general condition but after its months the function of the arm nas for per cent permal and the pain was

arm nas oo per cen gradually diminishin

In one case that of a guit of 11 years there 12 separation of the shaft from the head at the epiphyseal line. Reduction was accomplished by strong arction with the arm in complete abduction 1e. up beside the head and counterfr ction in de by the surgeon's foot in the hollow of the netc. The arm was dressed bound to the sade with the forecast along at the write. As a current was a dressed bound to the sade with the forecast line and the same an

In the sixth case cited there was comm nution of the head of the humerus The authors were able to mold the fragments together and to restore the con tour of the shoulder A complete functional r

covery resulted

All of these reductions were effected under general anæsthesia and on the fluoroscopic table The most common error in the dagmoss was suspecting at discation. The crims which were not put up on a transquier splint in abduction were dressed at the side of the chest, and the side of the chest of the chest of presenting motion at the fracture is importance of presenting motion at the fracture is upportance of presenting motion at the fracture is upportance or discated by the side of the chest of the side

Taddel D The Treatment of Fractures of the Neck of the lium rus by Abdu tion and External Rotation (S 1: attam in bd 2 e ts a tenad lieft it receive shid illomer) 1 s niol d hr 19 4 iii 1

In high fractures of the humerus the head left in the glenod is rotated externally by the rotary muscles white the distal stump either by its own weight or the action of the pectoral and other muscles of a placed on internal rotat on Although it is offer in the pectoral and other muscles in placed on internal rotat on Although it is misconsisted by the pectoral proposable to correct displacement degrees and possible to correct displacement degrees. The rotation Therefore in subcultaneous I actures of the humerus Taddei faces the arm in abduction and external rotation of 180 degrees. This he does by means of an appar tus which he describes and shows by illustrations. W. A. BESENNAN.

Arcangell M A C e of Isolated Fracture of an Interreptebral Disk (Sop a on aso d frattur tsol ta di u discol t r e t b al) Ch d orga di mor m nto q23 ut 72

A quarryman aged 30 years was standing on a marble block that projected from a chil A s tery rope about his wai t was fastened to the brow of the chil The marble block suddenly broke loo e and the man fell into space daughing at the end of the rope. The results g from acconsisted in stranging pressure from the tightened rope and contiss on from pendulum like beating against the chil

The man as placed in a hospital for twenty us days and then sent home. Although the maintyle ontu ions and exconstions healed he was still unable to return to work six months later because of general weaknes and pain in the spine on heading forward. There was no bladde or rectal disturbance and of the sent of the sen

On examination the first lumbar spinous process was found very promin in but not dequated fater ally. The tonicity of the lumbar muscles the referest and cutaneos sensation were normal Rising from the stooping por tion learning to the side rotation of the truth and hypersection was of the lumbar spit of caused considerable pain and some rigid ty of the lumbar spine.

During the f llowing year the general weakness increased bending forward became more restricted

and the first lumbar pinous process became more prominent and painful on pre-sure Walking in descent was particularly pa iful

The set few was the condition remained proceeding under the many processing the period antero posterior and lateral \(^1\) ray wens showed a wedge shaped deforming to the inter-teteral disk between the normal bodies of the first and second lumbar vertebre which almost touched on their anterior borders. The projection of the spinous process of thing of the body of this vertebra. The properties of the spinous process of thing of the body of this vertebra. The peripheral portions of the disk bulged laterally beyond the vertebral bodies. The spine was otherwise normal vertebral bodies. The spine was otherwise normal vertebral bodies. The spine was otherwise normal vertebral bodies.

A diagno is of holated fracture of the cartilag a ous disk between the first and second lumbar verte

The author considers the case of st eral interest feeau e of the ranty of the lesion its causation by sudden squeezing of the war t and hyperest nsion of the spine the payority of neurological signs and motions and the leinth of the period of observa

Other cases of isolated fracture of an inter erte braid it have been reported by Kocher Middleton and Teacher Walter C Burker VD

Stevens J II Compress on Le erage Fractures of the Ankle Joint S of Gy e 5 Obit 924 XXX 711 234

By a detailed presentation of the applied mechan ics of ankle fracture the author show that hen a man weighing 150 lbs step off a cu b and turns the foot outwa d in eversion there is a compression and

le grate stress of 600 lbs on the fibular side of the leg There are to o dist a t nechanical entities involved in eversion fractures. The first is levera e with the center of gra ity mesial to the foot. The fulcrum is at the inferior tibiofibular heament, the short moving pot er arm is the foot and the weight is the body If the ligament hold the tibula b eaks either at the joint level or about 6 m above it usually at the latter point because it is weaker there. The second mechanical entity is a compress on and le erage mechanism with the cente of gravity lateral to the foot The m ving pow r lever is the man's veight as he falls utwa d the foot being fixed under this wer ht The fulcrum is the point of contact between the tibia and fibula As the fibula is comparati ely ri id the b eak comes at the reak point in the bone a little above the fulcrum

The major ty of the milder injuries are produced by the first mech mism and most of the severe ones

by the second

The author contends that the rotation mechanism
which some surgeons claim is the cause of this
fracture cannot be accepted

There are many more eversion fractures than inversion is cure because the is much more yielding on in ers p. A fracture of the external malleolus alone from inversion is due to rotation leverage rather than to avulsion

Splits in the tibia anterior (common) posterior (less frequent) and longitudinal (more frequent) are due primarily to impact Compression leverage fractures may be divided

into two clas es (1) eversion (2) inversion

Ever ion fractures are of the following types

Type 1 A simple periosteal tear of the internal lateral ligament. This is rare

Type 2 Fracture of the external malleolus alone half way between the joint surface and tip without di placement of the foot

Type 3 Fracture of the internal malleolus (a) at the tip from rotation stress or (b) at the joint level

Type 4 (a) Fracture of the fibula alone at the point level usually oblique upward and backward with backward displacement of distal fragment (b) Fracture of the fibula alone above the point level

Type 5 (a) Fracture of the fibula at the joint level and fracture of the internal malleolus (b) Fracture of the fibula high up and of the internal malleolus at the joint level the classical Potts fracture

Inversion fractures are of the following types
Type 1 Periosteal tear of the external lateral

hgament
Type 2 Transverse or oblique upward fracture

of the internal malleolus at the joint level

Type 3 Fracture of the fibula at the joint high
up Ra e

Type 4 Practure of the fibula and internal malleolus (a) of the fibula at the joint level (b) of the fibula higher up

In reduction the knee should be flexed first Rocking the foot usually corrects the lateral displacement Backs and displacement is sometimes overlooked it should be reduced by pulling forward on the o calcis and making backward pressure on the tibia A Cabot splint should be employed at first not a cast. If the internal malleolus is broken the foot should not be inverted. The knee should be kept in the flexed position. Active and passive motion may be begun in a week sometimes sooner Active and strong dorsal flexion; essential Plantar flexion should never be extreme. A cast should be applied after a week and cut so that it may be re moved for motion The first lew days the foot should be soaked in hot after before it is exercised In cases of simple fibular fracture weight bearing may be begun cautiously in twenty days but in cases of more complicated fractures it should be delayed for four or five weeks If proper mobilization is carried out conval scence will be shortened. The shoe heel should be built up on the inner edge from 4 to 15 in to prevent evers on

NILLIAN & CLARK MD

Geist E S Old Fractures of the Ankle J Am

The author divides ankle fractures into four classes (1) those with inversion (2) those with eversion or Pott a fracture (3) those with backward displace

ment of the astragalus on the tibas (a) linear and annu all fractures. Special aftention is paid to back ward di placement of the astragalus which usually carries with it a large or smill portion of the tiba. In the treatment of fresh fractures the astragalus must be placed in absolutely correct alignment which be hones of the leg and frequent roentgeograms should be made of both ankles. Stability is necessary to permit weight bearing. Any abnormal mobility of the ankle or deviation of the astragals from the center line will result in a weak and pa nful ankle

A tendency toward the equinus position is noted in all types of ankle fractures. This must be prevented by keeping the foot at a right angle to the leg. In the after treatment physiotherapy is val

nable

The author reviews a series of thirty five cases which were seen in a period of five years. The complaints were the same viz pain stiffness and swelling of the ankle joint. All of the patients limped and most of them u of canes. In some of the cases

there as marked shortening of the tendon of Achilles In about two thirds the previous treat ment had been madequate

Pain was due to boue atrophy mal alignment or ngidity or a comb nation of these factors. Bone atrophy, could have been largely chiminated if theyorous phis otherapy had been instituted. In seventeen cases in which the astrongulas was not leaded a cetty under the time furnation was not tern list interfered with and pain resulted. In four teen cases there was marked shortening of the Achilles tendon and pain ensued because the fore part of the foot was sforced to do more than its share of the weight bearing. In a few cases there was postframmatic arithmis.

In the treatment simple lengthening of the heel tendon will often suffice. In pottraumatic arithritis arthroides is frequently necessary. In cases of mal alignment due to ince a on or eversion a supra mailcolar osteotomy is indicated. Ba kward doplacement is difficult to correct but sometimes arthroides will help.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD TRANSFUSION

Ra din 1 S Reactions in Transfusions S g

The 1000 cases revewed were treated at the University Hospital Philadelphia during the last to vears. The transfusions were given with the kimpton Brown tube. In the syringe cannuls method by the cutrate method with the use of the Un er apparatus and with the use of 100 c.cm. Lucr syringes.

From this study the following conclusions are

drawn

r Except in emergencies the donor and recipient should be carefully matched not merely typed I has recently been shown that in each of the four main groups there are subgroups

2 Reactions may occur regardless of the method used. It is probable that in certain the asses such as severe anarmas the chemical character of the blood plasma is altered. A reaction may possibly result also from variations in the hydrogen ion concentration of the blood of the donor and re.

3 Bacteria may be introduced at the time of the

4 The blood should be transferred from the donor to the recipient as rapidly as possible Delay

increases the reaction 3. The danger of reaction 1 in direct proportion to the number of transfu ons given L en if the same donor is used the blood should be matched.

for each transfusion

6 Under certain conditions auto agglutinins

may be pre ent

7 hay method which allows beginning coagulation—particula is delay in the transference of the

blood-favors reaction

In discussing the prevention of specific reactions following the use of the citrate method the author emphasizes the importance of using absolutely pure sod um citrate not an ordinary commercial prepara tion Frest t distilled water mu t be used Com mercial preparations of distilled water are not fresh and may ha e a decided acid reaction due to im The solutions shiuld be prepared at the time of the transfu ion Sod um citrate will not stand repeated terdization as in this process it gradually liberates free c tri acid. The blood of the donor must be transferred to the recip ent as rapidly as possible Fapo u e to the air allows the escape of carbon do tie ni increases the allalin to of the blood The citrate solut on should be ad led to the in I bools

hew rul her tubing should not be used in any method Occas S Paicton MD

LYMPH VESSELS AND GLANDS

Gioja E Anatomicopathological and Clinical Contribution on Print by Tumors of the Lymphatic Glands (Sun tum 1 primit 1 delle ghind le half the ctributo anatom patologic educol A ch. 131 d th. 1 123 v 1 13

The author reports in detail two cases in which a diagnosis of tuberculous lymphadenitis of the cer vical region was made but at biopsy and autopsy the condition in one was found to be a lymphosar coma and that in the other a primary endothelioma of the cervical lymph nodes. The error was due to the fact that there is a hypertrophic type of glandu lar tuberculosis which has all the clinical charac tenstics of lymphosarcoma malignant granuloma and primary nodal endothelioma. On the basis of their microscopic character these pseudoleukæmic entities may be divided as follows (1) luetic lym phadenitis (gummatous rare) (2) hypertrophic tuberculous lymphadenitis (pseudoleukæmic) (3) malignant lemphogranuloma (Hodgkins) and (4) neoplastic lymphadenitis primary lymphosarcoma endothelioma and secondary carcinoma

The differential diagnosis of these conditions is difficult from clinical inspection alone often biopsy

is necessary

P eudoleia.kmma occurs most frequently in young men Its incipience is marked by timmefaction of a chronic nature. As the disease advances it involves the axillary glands and occasionally the inguinal glands. If death does not super-ene too soon the vosceral and mediastimal nodes may be aktacled. On the whole the reaction is afebrile. The liver and spleen become enlarged and the general condition deteriorates rapidly and progressively. Occasion ally there is mutosal and cuttaneous harmorthag. The blood shows object of them to recopic findings suggest lymphomerias.

Mahgaani tym to ransloma is characterized by multiple glandular tumefactions beginning in the cervical region and extending to all of the nodes of this group. Feel ent attacks of picetia are common The special name and his extending the changes but this traditional part of the nodal masses in reduced but this traditional part of the nodal masses in reduced but this traditional part of the progressive pallor and loss of weight. The blood progressive pallor and loss of weight. The blood progress e pallor and loss of weight. The blood progress e pallor and loss of weight. The blood progress e pallor and loss of weight. The blood progress is pallor and loss of weight. The blood progress is pallor and loss of weight. The blood progress is pallor and the second progression of the so-called structures of Sternburg (1) epitheliond for progression of Gubbons (1) ctil and for retreating endotherization of Gubbons (1) ctil and the progression of Gubbons (1) ctil

I ymphosarcoma is particularly difficult to differentiate from other malienant changes in the cervical lymth nodes. Lyen in non-malienant lympha lengtes there is a fistingt invasion of the Is me hor I structures B th the clinical and the micro cot ic ricture are essential for the diagnosis I vmt hosarcoma lerives its histol e cal chara teristics mainly from the atypical proliferation of the lymphatic structures with the pri luction of lymphatic cells. Lymphisarcoma may develop from any lymphate to ue in the bot but the lymi hati glan is are its mo t comm a ni lus. When the co lition is more or less generalized it is his tinctly acoptant c because there is an invasion an I infiltrati n of the surroun ing t ssues beyon i the plan lular ti we and the metastatic masses show the char teristic structure of the primary less ?

Primary on lither may of the lymphatic glantly is relatively a raw. It springs from the lymph ties of from the enduther tunn of the blood sessels per using the glands. If I forgot lixtupe is I not always a small let from it is I well on the absence of epithel al monplatus formats. In The leaves up or all lyconstet all ng the lymphatic channels. It is at alway moves but desput feel constitution if it is at manifest, and theory the channels are the mailtain and I facultath causes feath. Frequently it is manifest, a recer size action at the primary in

Lut the m tastate masses are undisturded.

On the base of the microscopic findings the author ma name that the uses hitherto held the tauthor ma name that the uses hitherto held the tauthor man tasses that the uses hitherto held the tauthor tastate to be the tastate of the tastate that the tastate tastate that the tastate tastate that the tastate t

The Isosphatic glunds may be the site of endo the lomata of the primare oval an fussed cell structure which simulate sare mata of fused cell structure of value fin the differential diagno so of the etwo conditions are the generalized a stemic unamond the end in the oma and the I mitted localized inside on not of the sare may. In the microscopy is aming at near the modern of the sare may be an in the present of bull rep is morphism and cells of epithenic I type of the reput of the properties of

In certain ca es of neoplastic lympha len tis the use of the X ray is of value or is as a falliative mea ure J urs V ki er M D

Stone W.S. The Treatment of Hodgkin. Disea e by the X-ray and Radium Based upon a Study of 200 Cases. C. ad. F. t. 1914 xl. 100

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Islatin can be of tanel in 60 per cent of the cases and complete restoration of halth with or without complete regrees not the tumors in about 33 per cent Restoration of health. It often a stand rarely to three of or years If p Illation is to follow it will be a natire the fact or excendire timent. Warrall Warrall Law Warrall La

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hantcher H Surgical Drainage (L dan e n chrurgi) Pre e méd Par 1924 xxii 27

In Hanther's opinion the most practical and scentific method of establishing surgical drainage is by capillary attraction. In experimental in extigations he found that secretion and absorption vary according to the region, the tissues the nature and virulence of the infection the general restauce of the body and the time of the day. The fluid evacuated by a capillarly drain is not pumped evacuated by a capillarly drain is not pumped or sucked by force but is secreted spontaneously by the wound and drained immed attly after this production and before its absorption. It is most time portant to prevent absorption. When drainage is faulty septic fluids are forced into the recesses of the wound and infection by continuity is favored.

The fluids secreted in the different parts of a wound are often of different densities. Therefore a drain is necessary which will serve to remove all types of fluid and remain open even when they contain more or less solid material as is often the

Hantcher has devised unperforated capillary drains to meet such conditions. At first he employed a tube drain split longitudinally the two parts being sewed together back to back. This he has now abandoned The nev est drains consist of a number of rubber strips whi h cross each other at acute angles the spaces between the strips forming the capillary routes. A number of such drains are illustrated Tests have shown that they evacuate the wound much better than the older drains that they will drain fluids differing in phys cal character and that the routes of drainage are in full contact with the interior of the wound. As they are with out lateral perforations the soft tissues cannot enter them and cause obstruction and as they are rigid they can be introduced into deep wounds

1 A BRENNAN

Ad ms S F and Wild r R M The Surgical Risk of th D; betic Patient S g Cln V Am 19 4 587

This report reports up on the operations performed on diabetic pat ents at the Mayo Clinic in the two year period ending October 1 1923

In 327 operations performed on 251 patients there were four deaths. The total mortality for all operations was 12 per cent and that for mator operations 28 per cent, one of the deaths was attributable to acidosis. One hundred and forty-one

of the operations were classified as major. Among these there were ninety five abdominal operations. The authors attribute the excellence of the results.

to the fact that there was perfect cooperation be twe n the surgeons the anesthetists and the in ternists Skillid surgery visdom in the choice of the anesthetic and careful pre operative and post operatic management place the diabetic patient on an equal footing with the non diabetic patient under rouge an operation.

Although insulin was available during the last year of the two year period it was used in only 43 per cent of the cases. The pre-op-rative and post operative manigement with reference to the diabetes is described. I altents with gangerie of the extremities were treated far more conservatively than was formerly thought possible.

It is concluded that the diabetic patient v ho undergoes operation today is just as great a risk as ever and that only by perfect cooperation of the various persons concerned in the treatment can the mortality rate in this group of patients be kept as Jow as the general mortality rate in a similar group of non diabetic patients.

ANASTHESIA

Faure J L Spinal Anaesthesia (Rach an sthé 1e) B ll i mém So i de h 19 4 l 86

Faure defends general anisathesia which he believes should remain the most commonly used anisathesia. Among the anisathetics employed to day the mutures are the best. Schleich is muture is particularly good. During the sevente in years that Faure has used it he has never had an accident despite the unfavorable conditions under which it was often administered.

Local amesthesia is suitable for minor operations and for certain cases of severe conditions in which it is impossible to use a sufficient quantity of ethyl chloride. Spinal amesthesia is warranted only in certain very exceptional cases

Faure states that there is a tendency today to follow new methods of induting amenthest because they are pectacular new and different. While it is admirable to be able to execute on a conscious patient without causing organism on a conscious patient without causing more admirable he b lieves to operate upon an ic conscious patient; tho will have no recollection on a conscious patient, tho will have no recollection out the ordeal through which be passed. Anesthetic skeep one of the most marvelous conquests of man over the for test of nature has made possible the perfection of modern surgery and should not be shandoned. We A BERNAN.

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Muller C P : Surgery In Di betics S , Cl Am 1924 | 147

The relation of diabetes to d seases re nuring surgi calinterventi nasattracting increas ng attention es pecially since the discovery of insulin has offere! a means of controlling the coma which is responsible for nearly 80 per cent of the deaths. In a senes of 385 diabetic patients treated at the Massachu etts Ceneral Ifo pital fitz found that 14 per cent re quired surgical treatment and in oos cases of diabetes Josha found that at least at ner cent reonire i operation

Jo lin reports that he has records of twenty seven rases of liabetes operated upon bef re tour in which the mortal ty was 18 per cent. These jul not in clude cases with gangrene or sepsus Since 1919 there have been sixty-one operations in similar cases with a mortal to of o per cent. Lite reports that in one group of t enty cases of acute infection or gangtene operated upon at the Massachusetta Ceneral Hospital in the period from 1013 to 1017 the mortality was 50 per cent while in a secon ! group of twenty five non infected cases the mor tality was 12 per c nt Young states that of ninety nine patients with diabetes who were treated at the same institution in the period from 1918 to 1927 only sixteen died a mortality of 16 per cent. In the collection of cases recorded by I hillies in 1002 the mortality was as per cent

I rom these figures and others it is as parent that persons with diabetes have almost as good a chance from operation as those who are not diabetic unless there is sensis. The factors of importance in lower ing the mortality are (t) proper pre-operative preparation (2) proper anasthesia and (3) proper

postoperative care

In the pre-operative care measures must be taken to improve the cond tion of the cardiovascular system Digitalis al ould be given in intensive loses unless it is contra indicated Attention should be directed also to the kidner function and mental disturbances should be alleviated as much as pos suble. The regulation of the diet is of supreme importance but the complete withholding of car bohydrates is indefensible The diet should be that which brings the petient to the point of carbo hydrate tolerance Regarding the use of alk lies in the pre-operative preparation Muller states that formerly he employed sodium bicarbonate in doces sufficient to alkalinize the urine but recently has given it in only moderate doses. He never gives it intravenously I attents may be sent into coma by the careless use of sodium bicarbonate

In the authors cases insulin is go en cautiously before meals until the unne is sugar free It acts to promoting the burning of carboby drate, hence the patient must be given sufficient carbohydrate to serve as fuel

With regard to the choice of the angithetic Muller states that as ether has an injurious effect on the liver and be is fats it should never be used in cases of diabetes. Local anxisthetics are also contra in licated as they predispose to extensive nectosis if infection occurs The anasthetic of choice is nitrous oxide oxigen. For operations on the extremities and pelvis its use may be combined with spinal anasthesia

During the operation the tissues mu t be handled very gently as their vitality is low because of the

vascular decenerat on

The proper postoperate e treatment is merely a continuance of the pre operative except that the stient must be watched constantly in order that insular and glucose may be given if coma threatens The plasma carbon d or de is of great value as an indicat f Water should be ri en early. The author starts hypodermock is on the operating table and continues it until the patient is ingesting water freely The patient's stay in bed shoul! be short an i he should be taught to exercise in bed

Diabetic persons with acute appendicit's per forsted ulcer ruptured extra uterine pregnancy etc must be operat d upon without regard to the lubetes If the presence of hiperglycami is known the operation should be carried out with the precautions mentioned minus the pre-operati e feeting and every effort should be made to reduce the actions after operation. Thallimer has shown that not only diabetic but also non-diabetic acid osis may be treated successfully with insulin

The most important operations of necessity are those for gangrene of the loner extremity, carbuncle and cellulitis Next to coma gangrene is the most dangerous complication Cangrene is usually a late complication and is almost invariably associated with artemosclerosis. The glycosuma may be a primary or secondary condit on In many cases it tromptly clears up after amputation and healing The gangren us foot should be amputated early I few lays are sufficient for the study of the labora tory reactions and the preparation of the patient f r operat on by the free use of w ter and d gitaliza

In the seventy seven cases of amputat on in cases of diabetic r ogrene reported by Josl n Binney and Jones there were the ty se on deaths a mor tality of 48 per cent In the auth r s op ni n this is a very high percentage and suggests that the dia betes was too severe for control or that delay had

nary care

favored sep is Young states that there are two types of diabetic gangrene-one of the arterio sel rotic type in which the operative indications are the same as in cases of seleros: and the other a type in which the gangrenous process can generally be influenced and often arrested by proper dietetic and local treatment. In regard to the latter Stetten advocates bot baths of saline solution trice a day or baking in a hot oven local treatment with wet sal ne compresses and excu ion of the necrotic tis sues then the line of demarcation has formed Muller cautions however that the danger in dia beti gangrene is that of ep is and unless thi is controlled promptly amputation should not I delayed

Many cases of cellulitis in the foot are accompanied by a cyanotic appearance suggesting gan grene Free incision with the remo al of sloughs and th drainage of pu pocket plu treatment for the d abetes will often result in h althy granulation and heal ng If the phalangeal 1 ints are open and infected amputation of the toe should be done by a

simple guillotine metho f

Carbuncle has long been con idered a frequent complication of diabetes but of a series of forty two patients with carbuncle treated at the University Ho pital Philadelphia only six were diabetic

The article i supplemented with illustrative case

reports

MEDICAL JURISPRUDENCE

Failur to Recognize the Presence of Osteomy elitis LI d 40 \ E p 546

In this case Lland employed the physicians to treat his arm. He claimed he had osteomyelitis in the arm that part of the bone had sloughed off and that pus had formed. In the suit he contended that the physicians had negl gently failed to diag nose the ailment and had adopted a accine treat ment that because of that falure to perform an operation he lot more of the bone in he arm than w ull ha e been nec ssart if the groper ur gical treatment is d been gi en

The evidence showe I that the physicians made a complete examination of the p tient including the usual blood tests urinal st \ ray examination microscopic examin trans of pus etc. A diagnosis of streptococ ic inle to n in of an only the soft s made Ait r five months the bone was di covered to be infect d'a d'part of it was removed

1 & surgical operation

There was ome dist reement on the part of the experts a to the nature of the patient s condition at

the time he employed the physicians three testify ing that he had acute osteomy clitis and six that he did not have that disease at first

The jury found again t the physicians in the sum of \$2 000 The Supreme Court of Indiana in re ersing the judgment and ordering a new trial stated that even if the plaintiff was afflicted with osteomyelit from the beginning and the defendants were mistaken in their diagnosis such facts alone would not give the plaintiff a right to recover damages. A physician or surgeon is not an insurer and does not hind himself to make a correct diag nosis and effect a cure or to respond in damages He is bound only to possess reasonable skill and to use ordinary care and if he makes a mistake in his anclusion as to whether a sore spot on the skin has a origin in the flesh or in the bone under the flesh he is excused from hability if possessing reasonable skill be has used ordinary care in making an examination and has honestly reached the mi taken conclusion by the use of such skill and care Not having warranted a cure he is not hable for the

consequences of an honest mi take of judgment if he has reasonable skill and learning and uses ordi Improper Treatment of an \ Ray Burn K or les vs Bi 95 So D 48

WILLIAM E MOONEY

knowles was given \ ray treatment by Dr Dark for eczema on both feet. After this treatment swelling and ulceration caused apparently by an 'a ray burn developed on the left inkle Following treatment by Dr Dark and other physicians knowles was taken to Dr Blue Dr Blue pre scribed local applications. As these did not produce the desired results Dr Blue curetted the wound and covered it with a graft of skin taken from the

There was evidence to the effect that the grafting of skin on an \ ray wound was improper but the evidence offered on behalf of the physicians was to the effect that grafting was the best method of treating such a wound

The trial court charged the jury that unless it is provided by an express contract a physician or surgeon does not warrant th t be will effect a cure or that he will re tore the patient to the same condition as before the necessity for treatment are e or that the result of the treatm at will be a ccessful

In the trial of the case the verd ct was in favor of the physicians and the patient appealed the case to the Mabama Supreme Court That court sus tained the action of the lower court and approved the charge to the jury WILLIAM E MOO EY

BIBLIOGRAPHY of CURRENT LITERATURE

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Nose and Sinuses

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SURGERY OF THE NERVOUS SYSTEM

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SURGERY OF THE CHEST

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International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

Who appreciates the man will as the urgeon abrea t of progres in every department of surgery will find many ab tract of importance pertaining to crathalmological subjects in the month's 1 suc of the ABSTRACT OF SURGERS The etiological relation of sinus disea e to affect tions of the eye and inflammations within the orbit has received increasing attention in recent vers Abstracts of articles by Dowling and Crane (p. 193) again emphasize the importance of careful examination of the sinuses in the presence of inflammatory conditions within the orbit. An extensive discus ion of traversing wounds of the orbit by Grieg (p. 180) two reviews on the treat ment of glaucoma by Cords (p 191) and Luedde (p 101) and a review by D W and P C White on the treatment of trachoma (p. 190) are important contributions in the field of ophthalmology

The subject of ga tire surgery is represented this month by an unusually notere ting and authoritative group of abstracts. Balfour's discussion of the victors of safety in gastric surgery (p. 200) C. H. Vlavo's review of the indications for gastroduodenostom (p. 205) Dragstedt and Vaughan's report of experimental studies in gastric uleer (p. 207) and Hurst's discussion of the treatment of severe gastric harmorrhage (p. 208) constitute a symposium on surgery of the stomach that; worth of thought

ful study and attention

F equal interest both because of its importance and because of the wide experience and all lits of the men whose paper are reviewed 1 the section devoted to carcinoma of

the uterus Cule Portmann and Jones of Cleve land discuss this subject from the standpoint of the surgeon the roentgenologist and the radio og: (fp 2 1) Clark and Block of I hiladelphia after summarizing the results obtained in tensurgeal clinics compare the relative value of irradiation and ra lical hysterectoms in cervical carcinomia (p 223) Aorris and Vogt review the subject of carcinomas of the body of the uterus on the control of the

A number of other abstracts in this month issue of the AFSTRACT touching various field of surgical practice are worthy of careful attention. Mann sdr cussion of liver function (p. 213) of particular interest because of the definite and clear cut experimental work upon which it;

Friedmann and Strauss summarize the tests for the detection of blurbubn in the blood and di cus the importance of its presence as and in the recognition of gall bladder infection when jaundice is absent (p=zts). Pack Under hill Epstein and Nugelma's in reporting the results of experimental studie in electro-ionic medication (p=zts) state clearly and concisely the physical changes which occur in various solutions of organice and inorganic compounds as a result of electrols is:

The results reported permit one to judge of the value and approximate field of u cludies of this much advertised method of therapeusis.

INTERNATIONAL ABSTRACT OF SURGERY

SUPTEMBER 1924

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Greg D VI Tra ers ng Wounds of the Orbit

Creg repors a case of tra ere ng wound of the orbit which resulted in a temporary insolateral abdue ns paralysis temporary and slight pare is of the contrafateral oculomotor and facial nerves and an ataxiform tremor of the posolateral limbs

The injury was produced by an umbrella risk the chemical five superior orbital Insure and pas editated to the internal ca of disterts between this atery and the abduces nerr. The nerve was not transfixed or torn but the contact was evidently sufficiently decet to stretch in Th. umbrella risk sufficiently decet to stretch in Th. umbrella risk then pas ed th ough the 1 ft cerebral peduncte in the region of the red nucleus and the substrain mgra

The strain on the trunk of the abducers freve doubtless myner dis seep nucleus in the t generate in The sight contralateral facial aff ction was explained by the subsequent it actionary a deem since the intraportion motion portion of the far all nerve loops and the abduce is not of the far all nerve loops and the scholar in motion. The eri temporary and the scholar in the sight probable that the f ctor respon ble as orden a roter then than them rhag.

The injury to the cerebral peduncle and the conquent react on in vedema ould xiliam the slight and temporary flection of the cont all teal oculomotor nerves some of the fibers in going to the oppose to evaluate the pass though this part I the bran in the pass though this part I the bran in the propose to the oppose to the

The internal apsule and the opt c thalamu i ere not in olved in thin juny. The et ir hemplega did not occur a risat on was not aff cted and sub e quest contraction was pre in 40. Yetther was the range of the color timed ate injury to the optic nerve tract or chain. The is form irranor of the ysolateral hinds must habeen due it junys about the right red nucleus. The everity of the mut i shock was expliced by the relations of the pit of the Iran night elements.

Wounds of the orbit in general the author divides into travering and non-travering wounds. Traversing wounds of the orbit may be extremely small but they endanger the structures at the apex of the orbit in the superior orbital fissure or in the brain itself. Non-traversing younds often give more external evidence and may e en appear year danger.

ous but need not cause serious anxiety

The author cites some of the classical cases in the
literature and summanzes several experiments per
formed by Martial on the cadage to determine what

formed by Martial on the cadarer to determine what stru ture vould be injured by a rod pas ed in several different directions. The findings of Martial's investigations were as follows.

A rod passed along the messal's all of the orbit and through the supernor orbital fissure injured succes suely the lower border of the chaisma one mammil lary body the cerebral peduncle the tissues under the splenium of the corpus callosum the occipital lobe and the second temporo phenoidal convolution

A rod passed along the floor of the orbit through the superior orbital fissure injured successively the point of the temporal lobe on the inferior surface of the brain the caudate nucleus the right lateral ventrucle and the calcarine region. A rod passed along the lateral half of the lower

border of the orbit injured success vely the peduncle and the cerebellum

À rod passed so that it entered the brain just in front of the S) tain fissure injured the cerebrial front of the S) tain fissure injured the cerebrial ususe along the superior temporal sulcus below the second temporal and in the first temporal convolution and temporal and in the first temporal convolution and temporal and the temporal convolution and temporal from temporal temporal temporal convolution. These injuries cause aphasias explepas of the facual temporal from occupital journ and mysamment of the visual from the first production of the fi

A rod passing along the floor of the orbit from below upward and messally njured the inn r part of the sphenoidal lobe pas ed under the optic tract and through the mammillars tubercle and penetrated the cerebral pediancle from its antero inferior aspect to its po terosuperior aspect. These injuries result in hemiplegia and hemianorsia

A rod passed along the floor of the ort t horizon tally injured successively the optic tract, the cerebral

A rod na sed along the floor of

A rod pa sed along the floor of the orbit horizon tally injured the central gray nuclei especially the corpus striatum and the optic thalamus and de stroved the optic tract

stroved the optic tract
\[\text{ rod passed through the orbit in a direction other
than those mentioned injured successively the
temperosphenoidal fissure the gray substance the
internal capsule the optic tract in the white substance the lateral ventice and the issues around

Gricg off rs the follo ing conclusions

I Tra ersing wounds of the orbit are to be dis

2 Traversing wounds which leave the orbit through the jars orbitalis of the fro talls em transl at first but are generally latal

3 Traversing wound which leave the orbit through the superior orbital fisure seem very sen ous at first but are usually followed by reco ery with some impairment of cerebral function.

EYE

White D W and White P G. The Medical and Surficial Treatment of Trach ma T St t J M o 4 33

3.3 This is a rather short summary of the conclusions drawn from a very extensive experience in the medical and surgical treatment of trachoma authors speak of more than 60 000 operative cases They believe that trachoma is a comb ned infection which is not always due to the s me combination of organisms that it is a local rather th n a general infection that much careful work a still necessary before conclus ons can be drawn as to its etiology th t the amount of hypertrophy and sequential scar tissue depend som what on the strain of th virus and th t the success of drug tr atm at depends on the strain of the virus and whether or not the con is tion is true trachoms Any astri gent drug is harmful if it causes the form tion of cicatricial The authors ha e used many drugs but regard silver nitrate as the best

Radium glandular therapy injections of milk or phylatogen and conjunctival injections of cyande of mercurs are not helpful. The authors mention many drugs they have used and discuss their experneces with them. The review briefly also the numrous operate that proved of value under certain occumitances. They I und comb ned existion bera focular discussions of the control of the confession of the control of the control of the focular discussions.

The points mphasized in the summary of the article are the following

Careful operative treatment is very hely ful if it is followed by long continued drug treatment
 Astrong nts reach only the superit ful tis es

3 Trachoma i infect ous chefts in the so-call i

A Infection is tran mitted mo t c m monly b school desks bed I nen an l rubbing of the eyes Trongs D Atts WD

James R R and Colledge L. Lupus of the Lachrymal Sac B J Oph h 94 vi 165

In the case reported the lupus mod of the set in only a small area but there wa extensive modelement of the mucous membrane and submucous tissues of the mose and the region of the lachry mail is e. Tissue removed at operatu in was found filled with guart-cell is stems characters was found filled with guart-cell is stems characters was found filled with guart-cell in stems characters which was the contraction of the charges character which we have been started with the charges character which was the charges character with the charges character which was the charges ch

Copps L A Th Early Treatment of Injuries t

Proper early treatment of wounds of the eyeball is extr mely important in the prevention of perman ent disability and the pomotion of rajid healing. Therefore all injured eves should be treated from the first by eve specials is. Since this is not always possible all practitioners should know something of the

tr atme t of eye injuries.
A great deal of damage may result from the care less or improper removal of foreign bod es from the cornea. To guard against infection and resulting

corneal ulcer the f ll wing m a ures are to be recommended r Anasthes a Drugs whi h do not soften the

cornea are pref rabl to cocaine

3 Antisepsis Careful removal of all foreign substance and all burned or levitalized tis ue folioby the instillation of an antiseptic

by the instillation of an antiseptic

4 Bandaging A ban lage is essential if the
ep thelium is injured

5 Observation Observation should be continued until heal g is complete. The cornea should be carefully examined with the aid of fluoresc in

In c ses of chemical burns the irritating ag ni should be remo ed to note by thorough irrigation with a neutralizing solution. In all burns pain may be allerated by instilling a per en holocame in legic labolese. The oil at is as a libricant prevening urnt tion of the corn a by the ro-ghemed tarsal to jinctiva.

Severe injuries are class el act olarge gro pa vir those in whe the eyeballs not ruptured and those with rupture or penetration. Copps: susts that these cases about be seen each, by the ophthalme surgeons great change may be cone by rough hose desired to the control of the control of the same to the annual exact fully and the eye placed at rest by L eping the patient quit prefe abb in bed and applying a well futting pressure bandage.

Luedde W II Factors Determining the Choice of Operation in Glaucoma 1m J Ophth 1924 35 VI 353

It is generally believed that the establishment of the permanent dramage resential for the cure of glaucoma is best assured by a filtering cicativa covered by the conjunctiva and the superficial limit of the corner of the control of the corner of the control of the corner of the control of the corner of the corner of the corner of the corner of the circumlental space into the antenor chamber and if po sible into the canal of Schume Lurdde gives the following rules for the procedure he uses

Make a large thick conjunctival flap according to Elliots method. Split the cornea at the limbus for i or a mm. Make a z mm. wide oblique keratome inco in through the cornea into the anterior chamber at the lover margin of the flap (tim, beveled value like perforation). Enlarge the initial opening later ally with the round tip of a thin bladed scissors (winged kerntome incision). A large or small indectiony may be done or none at all. In addition to a simple indectiony, detachment of the chiary body from before byckward according to Forok's method may be done

Special emphasi is placed on the element of safety provided in this operation by the gradual reduction of excessive intra ocular tension through the small initial keratome incision when slight pressure 1 made on the upper lip of the opening with a spatula.

L L McCof M D

Cords R Cyclodialysis the Best Operation for Simpl Glaucoma in J Ophil Q 4 3 1 341

Cords considers colodials as the best operation for simple glaucoma. The conclusion is based on his experience with indections selerationy and trebining at the Univers ty Clinics in Leping Bonn and Cologne For cutting th sclera he uses a Gradefantic instead of a keratome. In separating the ciliary body I om the sclera he employs Elsching a stylet. For a veral days after the operation he perio on careful massage. The operation is done in all cases with a constant or per odical increase in the tension with a constant or per odical increase in the tension the use of most of product who are not careful in the use of most of product who are not careful in the use of most of product who are not careful in the use of most of product who are not careful in

ic ocst operation occause

I It : easy an In thout dang r

2 There are few postoperative complications 3 The effect of the procedure on the tension and Vilon are very satisfactory

4 One operation is usually sufficient and if it is n t the procedure can easily be repeated

5 In refractory cases any other of eration can be

Completations following cyclodials sis are few and with the except on of one incre sing tension are unimportant. An increase in the tension usually beg is to decrease again on the secon to third day but in rare cises this occurs only after the eighth or tenth day. In some instances the influence of the

operation on tension is sometimes only transitory a late increase being observed after weeks or months After indectomy an increase is very common A lasting good result is obtained by indectomy in from 15 to 71 per cent of the cases Cyclodialysis gives such a result in 85 per cent of the cases

In conclusion the author makes the following statement

The dangers of cyclodialysis are so few and the results are so encouraging in glaucoma simplex that in my opinion the operative treatment should always

be commenced with this operation

L. L. McCoy, M. D.

Giff rd S R A Further Note on Ocular Sporotri chos s Arch Oplik 1924 1 1 264

In the case reported a pumple appeared spontan coust, over the lachry mal region and increased in size until it involved one third of the lid and formed a fixtula at the inner angle. The tear passages vere not affected. Cultures showed sporothirs colonies. I arge dosses of potassium modide were given in ternally, the area was soaked with Tugol's solution and 4 minims of a 7 per ent solution of potassium nodide were injected with 2 p r cent cocaine about the lesson. Healing occurred in six weeks.

VIRGIL WESCOTT M D

Butler T H Observations on the P actical Value of the Slit Lamp B 1 M J 19 4 1 943

The use of the slt lamp supplements our older technique of eximining the eye but does not super sede it. Butler describes in detail his method of examining the cornea anterior chamber iris lens vitreous and retina and in inieteen photographs shows some of the normal and pathological conditions seen with the slt lamp.

ALBREY H PEMBER MD

Butl r T II On the Visibility of the Actual Blood Stream with the Ordinary Loupe 4r k Ophik 19 4 h 267

Butler has found it possible to study the blood stream in the vessels of the anterior segment of the globe by focal illumination and the ordinary loupe as well as by means of the more expensive sit lamp which causes dazzling that is annoy ing to the patient. By the substitution of a point of light lamp for the sitt limp and the use of a condensing leas free from aberration ferto illumination obtained from reflection on the ins and the column of blood in pannis may be studed.

Byers W. G. M. A Case of Encapsulated Angloma of the Orbit. A. k. Opth. 1924 ht. 80

The author removed an encapsulated angioma from the orbit of a man who stated that the growth had developed to its present size in two years. The usus all features of the case were that the tumor developed in the antenor portion of the orbit and the connective tissue elements of this angioma as

represented by the cap ule and trabeculæ vere very marked

In support of the contention that there is a connection between the location of angiomata and the vascular supply of the orbit and between the histo logical character and the distribution of the connec tive tissue of the orbit Whitnall adds a summary of the anatomical findings in the orbit VIRCIL WESCOTT M D

Ersner M S Studies of M to d Disease by the ner A Studies of M to d Disease by the
X Rays with Clinical Observ tions and Opera
ti Findings Lary & Fe 19 4 xx 321
hl r C E Studies of M st ld Disease by th
X Rays with Operatic Findings Demon

tration of a Special Localizer Lary 2 c p 339

FRENER states that the I ray m kes possible a comparative study of the normal and the diseased mastoid shows the type of mastoid the topograph scal and regional anatomy the cellular distribut on the type of cells and the po ition of the sinu and its surr unding areas and aids in the diagnosis of cavity formation per inus atypi al masto dit absces epidural abscess bilateral sui purati n and polynom marting

He reports nineteen cases giving the h story and th clinical roentgen and operative findings. His

conclus ons are as follows

r \ ray examination is indicated as a routine measure

2 It 1 important to clean e the area to be \ raved as ointments v hich have b en used may con tain metall c ubeta ces which will produce sha lows 3 The progress of masto i disease can be watched by means of \ ray e amin to as made at the ee day

intervals A When the lat al sinus shows hazi ess or c m pletely disappears from view under conservative treatment necrosis of the anterior bony wall with a

per s nus abscess may be su pected It is e pecially impo tant for the nov ce to the routine a ray examinations as from the ch ill learn the topographical and regional a atomy

of the mastoid

6 The a gle from which the mast id picture was taken must be unde st ol as then ie the clinician will misint spret some of the shadow

7 Cay t formation appc s a blurred area without septa an I with err indist ct edges large norm I cell sho s distr et edges and sept

8 In the cases of children the administration of chloroform may be necessary to obtain good

roentgenegram o In children in which the clis ar not fulls developed plates of the poste or canal wall should he studied as in the area the lone is thicken of the antrum has one or two cell and any the ease p sent

will be visible to In mast d lise se both maste ds should b rayed and compared

11 In bilateral suppurat on both plates hould he studied and the side showing the m t advanced disease should be operated upon first

12 The operative findings in one masterd vill usually aid in the int rpretation of the plates of the opposite side an l in the decision as to the pro e lute

to be followed on the oth r si le

13 Repeated roentgen examinate as will show whether the d sease is at a stan istill o is progressing

or is un lergoing scleros s 14 The operati e findings often do not agr with the rocutgen picture bec, use after the rocutre

examination has been made the operation is delayed I FAHLER states that the mastords ar gene ally symmetrical and are of two types (1) non cellular mastords which have three subtypes-the unde veloped or infantile the diploetic and the sclerotic (2) Procumatic or cellular mastoids A satisfa t ry roc tgenogr m shows the external aud t ry me tu the internal meatus, the misto d antrum, the tem poromaxillary joint a d usually the outline of the late al sinus a will as the middle and poste io cranial fossæ

Succ sful roentgeno e pluc ex musat on depends upon good films correct interpr tation and proper correlati n of the 1 ray and clinical e dence Cood films ar dependent upo absolute fixation of the head the passage of the c ntral ray d rectly the ugh the auditory can I sharpness of det I an I proper exposure Ul sord R WALTS ID

Mill gan Sir W The Surgical Treatm nt of Suppurati e and Cert in N n Suppurati e Affecti no f the L byrinth J I v r l 011 94 x 1x

The author describe the x o s types of lalrinth its and briefly outlines his method of deal as with each

The fact that one egment of the labyri th is

invol ed does not recessarily mean that the dis ase has extended to the oth is ther fore if surgical measures are indicated care should be taken to disturb the non infected t Is part ally lect 1 area as little as pos ible

As a rule purulent di ea e of the i t mal ear ti sults from di case of the m dole ear and then u u lls from one of the chr me infective proces's n!

seldom f om the acut 1 f ctiv p oces 's Labrenth tis associated ith na te middle e t

t fe tion a almo t n ariably of th acute serou variety

In cases I circumscrib d l byrath ti r o of the external s micircular c n listh in t freq ent portal of entry of the inferting. In case of diffu c purul nt lab rinth tis the portal | fentry is usuall) the fenestr o lis

While cases of circum cribed labyri thitis should be left alon cases of d fluse purulent laby rinthitis e llf prompt nd effi se t u gical t e tment

When the st tic labyri th app r to be the ite of the purulent proces t is the autho a custor's feely to ablat the tate s gment and remove metely the pars promontoria yathout disturbing or in any way interfering with the columella

In the cases of apparently healthy persons with sudden and violent attacks of vertigo sickness tinnitus and loss of hearing partial or complete destruction of the labyrinth i done. In a series of twenty such cases there were no 1 aths. The vertigo t as cured completely in all and the tinnitus in about 40 per cent. The tinnitus as partially reheved in 20 per cent and not relieved in 40 per cent WILLIAM B STARK M D

kerri on P. D. The Treatment of Dealne's V i 1 & R 024 th 433

The author believes that a hatever in reases the gen ral vitality ten is to improve audition and whatever gain in hearing accrues from such means must be attributed to better function f the n rie rather than improvement in sound transmi i n In the treatment of deafne s all sourc s of nf c

ti n nerve depress on or injury hould be emoved In kerrison's on mon routine c thet r inflation t dangerous t hearing as it may cause pathological changes in the membrana tensa. Rout ne or too frequent use of eustachian bough s or sounds 1 al o not without risk as it may r sult in abacute re c tions in the tubal muco a

In the treatment of advanced deafnes it i nece sary to bear in min I that the acoustic nerve involved as well as the conducting mechanism. In attempts to trent affections of the acoustic nerve care mu t be taken to a old injuring the con lucting mechanism In sele tel c ses the acoustic nerve may be treated by stimulation the dm nistration of drug the 1 m nation f int rio agen es a f regulate n of the patient in de f hf

EL MD lu t B

NOSE AND SINUSES.

Dowling J I The Relation of the Maxillary Sinus to Ocular Diseases Lar f. f. 9 4 x. (Grane C. G. N. I Access ry Sinus Infection and Orbit I Disease La ng p) 4

Downing st tes that in the phly t nular variety of ul rat on cen in chilir n it i important to n e tigate the on lit on of th a war sinu es f r n tinfr quently the ntra) thmo I will! f nl ni t i In telt infiction fith a tra L the et I gralf t mor it ath a thra idalinfecti a Cases I ngest nof the in ntal nu or anteri or ethmilal Il fr quently hong to of the upper half fth I al or ju to a thor I ma f th upper 11 Infect f th m llars into s ften scate I with n I ment of the lover half of the | r | jun ti a an i po ibl ith ord ma of the lwe 11

Unit ral jomn no fthee m be jue to an o bital alse s ec les to an ifection I the Is the maxillary nu of the thin if I cell

As the maxillary nu off is the hiffs for proming bronches of is a fine run to of

the sinuses ocular complications will be relieved only after the maxillary sinus infection has been overcome With relief of the maxillary di ea e framage of the anterior ethmoid cells and frontal sinus is often te establi hed without any operative

procedure for that purpo e

CRANE states that orbital cellulities is a direct extension of infection from the ethmoidal area. The bony partition separating the ethmorial and sphe noidal cell from the orbit and optic perve canal i thin and the periosteum on either side is connected by numerous diploic veins. The periosteum in the opti canal is inseparable from the sheath of th optic nerve an I in some cases there i a dehi cence of the bony vall betwe n the optic nerve and some of the cell mentioned Another factor favoring the spread of infection is the relationship of the I lood ves el of these parts. In cases of orbital disease of nasal sinus origin Crane exenterates the phen ethmo dal cell area completely

WILLIAM B STARK M D

MOUTH

Brophy T W Fundamental Principle and Re ce it Conclusions in the Surgery of Congenital Cleft Palate M I Wa 04117

In order to obtain the best results in speech an I fac al contour in cases of congenital cleft palate operation should be performed early technique is di 1 led into four stages (1) freshenin approximation and immobilization of the cleft bones (2) closure of the lip (3) cl sure of the soft rulate and (4) elevation of the nose if flattening re ulte i s hen the premavilla s as move I back

Their shening approximation an limmobilizat on of the cleft bones should be done a soon after by th as is extedent. The most satisfactory period i between the fourth and the tenth weeks since in an otherwi e normal child all functions of the body

have become farly vell established by that time Clo ure of the hp should be done in from ix to ten weeks after the bones have been approximate !

Closu of the soft palate should be deferred until just before speech is attempted. That is it should not be dore earlier than the eighteenth month I rotruling premaxille should be treat I as a

recent fracture. Under no circumstances should th pr max lize b remove i as these bones I gether with the teeth which they embrace give a normal c ntour to the face an I their lo me ns prognathi m with its unrightly leformity. In prognathism the upper lip recedes the nose becomes broadened an t flattened and the upp r arch becomes contracted so that the upper teeth occlude on the I ngual sur faces of the lower touth

The pem xllary bone should be moved into place and immol lize I after freshening of the sur faces which ar to come in contact. Ih compact bone should be rem ved. The soft to sues c ering the ben s sh ull be sutured with hor chair D s n f the somer a 1 moving of th premax !!

back without any attempt to unite the masilia can not produce a normal arch and may be likened to the treatment of a fracture elsewhere without assuring bony contact. MATTERN N FEDTERPIEL MD.

Pettit J A Malignancies of th O al Cavity

In cases of malignant tumor in and about the oal cavity there is almost invariably a history of chronic irritation preceding the development of the neonlasm.

A greater number of slowly growing or relatively benign malignant tumors occur in the o al cavity

than in any other part of the body
In mal gnancy of the oral cavity meta ta s

In mal gnancy of the oral cavity meta ta 3 ley ond the cervical ly mph collar is are Not more than to per cent of persons who die of cincer of the ral cavity present other lessons than tho e hich develop by continuity of its ue and cervical malign ant 1 mphadenoma

The percentage of cur 1 higher f r cin cr of th

In than for concer in any ther location.

In a seriof 1880 cales of can not the lip in liche k. Brever found that cancer of the livering occurs to the time as frequently a line not fit.

սթլ լեթ

In cane r f the hp tongue or fl or of the mouth the c rural 1 imphatic glands are not el early shereas in cancer of the musou membranes of the cheek o of the gum the visually do not be commyol ed until late Welly 18 Stark M.D.

PHARYNX

Lott H H Tonsillar Focal Infecti ns A Ne Diagnostic Point S g Cl N 1m 9 4

The author has found that in such c nditi is arthritis and neuritis tonsillect my give go dir sulls when the i fecting organism ar treptocor but that when the ton llar focus shows cheft st jit lococci and py gene organ m oth than trep t cocci a cure is not obt ined

The new diagnostic pot t t which Lott calls attention 1 the appeara ce f the i diumnat ry zone on the anterior pillar n front f the t n I na steptococci infection th a terior pilla show a narrow sharpli limited and vry datk el zo c while in infections in which t epitococ do not pediominate there is a broider in paler red zone hich fades off graduelly into the velut muco a

are repo ted to illustrate these findings FRENCH K. HANS I. M.D.

Typenes

Lansd wn G H Indicati as f r Ton illect my with a Critici m of the Operati n C +

with ut any perceptibly defined bo de

WAs J 9 4 xx 379

The author gi es th indicati ns for t n ille tomv

a follows
1 To sils whi h interfere with e pration digitation of to ce product on

2 Tonsils which interfere with the normal pass ge f air into and f om the middle ear by was of the custachian tube either by displacement of the palate or by direct obstruction

3 Tonsils which are a focus of infection as indicited by cultures

The operat on should be pr ced d by thorough cleansing of the teeth and mouth

A competent anæsthetist and the us of the finger dissect on method of enucleation are essential for successful results

STEPHEN A SCHUSTER M D

Wright A J Specimen Section and Drawing f
Case of Mycosis Fungoide Involving the
Pharymand Larynx Ir v. R y S c M d Lo d
9 4 7 S t L yrg 1 44

The patient from whom the spe men was taken was a man 34 ye so f age who con ulted Wrn th first on October 22 1923 for huski ess of the voce E aminate n at that time re caled small tumors in the f ls vocal cod s. The tharpna was clear. The

ks later the na phayn was blocked Death cur d frome haust on and plays December 13 1023 In ddit on to gen ral enlarg ment of the lymphatic gla ds and multiple tumors in the skin pharn and largur there was involvement of the n uco a of the bronchi Otto M Kort MD



Muc fgd ith phry

NECK

Saberton C W S The Nay Treatment of Hyperthyroidism B t W J 1024 | 66

Fourten years expenence in the roonigen treat ment of hyperhyrotism has convinced the author of the value of this treatment. In three of every four cares of female patients in whom the die case has not lasted long enough to produce myocardial degeneration there is recovery of the general that and functional acti. ity of the gland. As a general rule males do not respond so rea it. Jis now not the case which fail to re pon! to radiation othere on to crue glands are probably involved in all leases it were to include in the feld of radiation the srea of the this may start.

In doubtful cases roents notheraps is not advisable unless the basal metabolic rat in licates definitely that the condition is high throitism. The determination of the bill metabolism of value also as guide to the progre of the case.

and the second of the progress of the second of the control of the control of the second of the control of the second of the control of the c

The following technique has giv n good results. Two thirds or three fourths of a Sabouraud B

lose measured after filtration through 2 mm of aluminium given with a Coolidge tube backing up 19 in spark gap is applied to each side of the neck once a veek From tient to thirty radiations are given in the average case. Radiation is stopped before the heart comes down to normal as its effect is cumulative and continues for several weeks after it has, been stopped.

Several illustrative cases are cited. In about 5 per cent of the cases treated there was marked improvement and in about 50 per cent the symp

toms of hyperthyroidism di appeared

Unto ard effects were noted in only a few in stances. One patient treated twelve-years ago when the rechangue had been less perfected developed a serious skin lesson. Tv o others show ed evidences of myvavdema after the treatment but it was highly improbable that the ri lation was the cause in either case. Roentgen therapy was found unsait safactory in cases in which symptoms of hyper thy roddsm superviened upon an oll large paten chymatous adenog areachy matous or eyest gotter. These cases should be referred to the urgeon csyx-cally if there is pressure on the traches.

Having observed the undoubt d value of circ fully applied rocatigen ray treatment in Craves dusease the author beheves that because of its risks operative treatment should never be un! r taken until the Vray has been given a fair trial and has caused no improvement

ADOL II HARTLAG M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NEDUES

Tr tter W Certain Minor Injuries of the Brain B 1 1 1 1 1024 1 8 0

The author discusses serious headache as a second of slight or apparently trivial head injuries

There are two punc pal types of cases of minor head moury without fracture of the skull. In one the accident is a fall on the head caus as momentary unconsciousness followed by dizz ness and headache which usually cease in a fe hours. In the other type of head injury the violence is limited to a cer tain area of the skull lo s of consciousness does not occur and only minor functional disturbances are manifest

Traumatic headache may continue from the time of the accident, but more commonly beens with the resumption of active life. It occurs in attacks lasting for from a few hours to several days. Exertion excitement anxiety fat gue etc initiate or increase the na n and sound sleep will often cause its disap nearance. As a rule physical examination reveals nothin, of consequence

The author believes that this type of headache has a definite organic be is such as the stretching of the meninges from cedema or hamorrhage changes in the intracranial pressure or distortion of the skull It is not du to psychoneurosis since in the production of a n prosis actual memory of the accident e sential

In the pre ent on of this malady a definite period of rest in bed following a concussion of the brain and very slow resumption of duties are essential. Even with adequate initial treatment headache may occur and further rest periods may be necessary. A right subtempo al decompressi n is practically always successful but in som cases a decompression over the contus l'are is i dic ted

IL ALP VAN IL GET MID

Sajou C E de VI The Hypophy obasal Area in Its R I tion t the Pathog nesis and Treat ment of Biabetes In Inidus and Polyuri (In luding Study of Thirty Autopsi s) 1m 94 1 11/5

Recent experime tal w rk has d monstrated th t the generally accepted theories regard ng the func tions of the posterior lobe of the hypophy is are erroncous

The investigations of Camus nd R u v a d others d d not pro e that the po terior lobe of the hypophysis takes no part in the pathog ne is of diabetes insip dus or polyuri thei sho only that les ons of the tuber cine eum can pro ol thes disorders and that the latter can be produced with

out the participation of a secretion from the h pophysis

At the base of the brain is a nuclear aggregat which the author calls the hypophy seobasal ares This is the central starting point of a nerve path which descends to the Lidneys by way of the bulb

the cord and splanchnic nerves

Experimental data show that the inhib ton or arrest of physiol gical impul es through the hypo physeorenal path to the vessel of the kidneys causes passive d latation of these ves els with result ing abnormal excitation of the renal cells by the excess of arterial blood and as an end result polyuria

The beneficial effects of preparations of the posterior lobe of the pituitary glan I are accounted for not by a secretion or hormone in these prod cts but by their recognized power of constricting the arterioles thus counteracting in the kidneys the d latation of these vessels which is the cause of diabetes insipidus and polyuna insofar as their relationship to the hypophyseore al nerve path is concerned CYPIL J GLAS L VID

Piney A and Coates 1 Metastatic Carci oma of the Pituitary Gland and Di betes Insipid s J P th & B at 1 1924

The cale reported was that of a 20-year-old wo man who ga e a history I se ere not urus and presented evide ce of some hebetule and slight enlargement of the left cervic I glands. Two y ars previous to examination she had been operated upon for carcinoma of the left breast. She was admitted to the hospital in a comatose condition and the polyur a persisted unt I death a few days later

At autopsy metastases were d covered in th left cervical gl nds the mediastinal fat the l ft adrenal and many parts of the cerebrum and cerebellum The pituit ry gland was slightly but d finitely enlarged and on sagittal section was foun) to be almost circular. Its posterior lobe which wa. a d ll h te and homogeneous cons ste l of masseof act area coma cell Only one ves I contain ing colloid wa found The anterior I be which was not invaled by the arcinoma was a dull rel Th posterior part howed compression and ab orm predominance of basophil o er eo phil c telu The comparate e absence of cosmoph he cells which

re reported to be the resting stage of pituit rs lls and the supplanting of the posterior and middle I bes of the p tu tary by c rei oma ceds appeared to substantial the contention of von Hann and Jacoby that the sub tance or s bstances respons bl for liabetes ins p dus are produced in the anterior lobe nd t whin the posterior lobe is k er H H ter WD destro ed or nour 1

Berry G Brain Absces of Paranasal Sinus Or an Two Cases La 3 g cop 924 xt 1 346

In the two cases reported there was drainage through the no e but the condition proved fatal. In the first case the suppuration was a temporo phenoid abecess of sphenoidal origin which after exploration of the sinuses drained into the nose pontaneoush but incompletely. At operation the

te of this draininge was ob cured by necrosi of bone in the floor of the pituitary fosse. The ab ce is as inacce sible to other operative routes as it was medial to the ventricles except in the temporo obenoid lobe whe eit in git have been tapped with

a stra ht trocar

In the secon I case the lesion was an abscess in the frontal lobe of ethmo dil origin. This vas drained intranasally at operation. A recurrence four years later was not diagno. I because of the neuronal tendency of the patient and hat hern i insanats in his fam. I Death occurre I from miningitis following in grupture of the ab cess into the ventricles.

MANFORD R WALT MID

SPINAL CORD AND ITS COVERINGS

Beclere A Ca of Syringomy 1a Treated with the Nays Twenty Years Ago (In cs d) yr 1, molect tickly a gta p 1s v V B B 1 t l Soc mid d hop d I 9 4 3 t 64

In Bicl it is no muon it is best to spread the dose of \ta is or a rail and pole of \ta is or a rail and \ta is or a rail an

PERIPHERAL NERVES

W 4 B F. 34

The pat t a 28 year-ld omin who en trith h put I frehilb th In ging her hit; sh stated that sh a born if rverion a lock cauc of hull present ton Sinc her bit he has had; alsa of th upper ight

E am nat on re aled at ophy of the bone of the uppe arm and f the scapula very marked at ophy it he m sile t sues of the 1ght sh ulder and m mobils at nof ther ght hand 1th mo lerat fle on of all of the fingers and add cton of the index fin er No em at of the sh sh deder m forcarm w s s b

normal In the forearm fl vion was almot com plete but extension was possible to only 135 degrees The right hand was shorter than the left there was no actis e pronution and only slight passive pronation strophy of the motor muscles of the hand was very

pronounced

The patient used her right arm ver well her chief complaint being inability to pronate the hand and ank wardness due to its forced supmation. In spite of these defects she is as able to hold a pen and to write moderately well. The was all oable to sew but crocheting which requires complex movements wis impossible.

Salvatore in Patie M. D.

Miller O 1 Neuroctomies (Stoeffel Operation)
in the Treatment of Sp stic Paralysis S //
M & S 0 4 lx 2 0

The atticle is a preliminary report on forth six neutrectomes of motion enerse (Stoeffel operation) performed in the treatment of fifteen ca es of spastic paralysis. Cases of this type include diplegas para plegas hemiplega and imonopilegas. These conditions are due to various causes are frequently associated with mental impairment and are often so disabling and deforming as to justify heroic measures for the right in the past they have been unsait factorily treated by in notiony tendon transplanta factorily treated by in notiony tendon transplanta compressions and the injection of alcohol into the next of the conditions of the part of the conditions of the interest of the conditions of the co

The purpose of partial resection of motor nerves (the Stoeffel operation) 1 to interrupt the excessive nerve impul es to the spa tic muscles and thereby to weaken them so that an equilibrium may be obtained between no mally opposing groups

Miller has successfully operated in thy way upon the median scatuce of turnion and nernal population here. He recommends the treatment whenever the case falls into the proper neurological group and the child has a far to normal mentality. After the operation associated measures such as lengthering of the heel cord or stabilization of the foot may be mecessary. For maximum improvement efficient after training by a competent physiotherapist.

1. VL ZMARKIN, WID.

SYMPATHETIC NERVES

Henry A. K. A New Method of Resecting the Left Cet cod real Ganglion of th. Symp thetic in Ang na Pectoris I k.J. M. S. 924 S.

The removal of the certicolo sal ganglion of the left side appear to be sufficient t suppries augmal pain due to atheroma of the proximal north. The operation of sympathectom was suggested Franck, who believed that in certain cases the angal six and one might be due to afferent impulses travely g up from the sorta by way of the cervicoloral portion of the sympathetic chain.

Impulses such as those from a viscus gi e n e to pain which is referred not to the ascus concerned but to somatic areas innervated by the segments of the spinal cor I receiving the impulse. This explains the pain in the left arm and the left side of the chest By radi tion the pain may spread to the neck and opposite side of the body

Franck concluded also that death in anginal at tacks might be due to vasoconstrict on in the medul. la This assumption vas based on the fact that the infer or cervical ganglia se d out thick branches s high accompany the vertebral arterie fuse when the latter unite to form the basilar artery and send

flaments to the pons an I medulla

In pe forming sympathectomy f r the relief of ange al pain I nnesco interrupte I the afferent in pulses from the norta which are responsible for the trun of the seizures and in temoving the cervicodor sal ganglion out the filaments which accompany the vertebral artery and carry constrictor impulses to the medullary se | He used the anterolateral route of approach The author employs a poster or route which he describes in det il

S MLEL KA MD

MISCELLANEOUS

Danis R Th Treatm nt of the Late Complica tion of Spinal Puncture by Epidural Injections (Ir tem t desa d t t df d l p ct n rachid n | lij t e dur le) P s med 10 4 434

Late complications of spinal puncture such as headache vomiting and p ralys's of the external oculomotor ner e a e due gen rally to the p sistence of the m ningeal sound and the l ss of cerebrospinal Il 11 The inci! nce I these complications may be I creased by the use of a fine lumbar punct re needle by making a si gle puncture and b holl in the bevel of the needl in the axis of the column so that laceration of the dura mater will be minimal

Treatment by the intravenous injection of hypo tonic or hypertonic solutions is not le ical stimulation of the secretion of cerebrospinal fluid by hypotonic solut ons to replace the lost fluid nereases the pressure and tends to keep the puncture wound open. In the absence of ntracranial hyperten on injections of hype tonic s lutions deplete the cere brosounal flood at Il furth -

A correct therapeutic method will maintain the intracranial pressure at such a level that the edges of the punctur wou d remain join d and become healed The author believes that the epitur I in sect on of physiological salt solution con titutes such a method. When cornous the injected fluid ascend. very hi h and compresses the men n e I sac on all s des forcing back the contained fluid toward the brain The dur mater fibers tor by the needle are relaxe I and clo e together

The method advocated con sts in the endital 1 ject on of from 50 to 100 c cm of isotonic salt solution following the induction of light endur l anaesthesia by means of n voca is from 80 to 100 c cm of the s !t solut on an t c

c cm of per cent novocaine

From the results in ten cases of late ev re head ache the author concludes that the epidur I injection of physiological s lt solution is a harmless and eff cacous method of treat ng the late compl cations of spinal puncture. It is not a pre entire method h we er and should not be used at the time of th original spinal punctue as the any thetic might then be forced too high WALTER C BUR ET MD

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Short A R Cancer of the Breast B at I M d Ch J 1924 xh 64

The author believes that cancer of the breast is definitely increasing. At the pre ent time 7 5 per cent of women over 35 years of age may be expected to have cancer and 1 5 per cent of this number will have cancer of the breast. The majority of breast cancers arise from the epithelium of the ducts rather than that of the acini and occur in breasts showing hyperplasia of epithelium-the proemial breast

of Cheatle The proemial breast feel firm and it egular with little lumps here and there. At time it may be painful especially during menstruation and the e may be a reddi h or bloody di charge from the nipple The highest incidence of the condition is between the twenty fifth and forty fifth year of age The cause is obscure. The treatment is expectant Cancer occurs most frequently in non lactating and unsuckled brea is Heredity has no influence Scirrhou cancer is best treated by radi cal amputation encephaloid a cinoma by \ ray irradiation followed by remo | lof the breast

In the 106 cases operated upon by the author there was one postoperative death. Of fifty patients t aced for three years or more twe to five are live and well. Five are alive and vell more than eight years after the operation

MILLIAN I LAN II GE E MID

TRACHEA LUNGS AND PLEURA

McCrae T Th Clinical Feature of Foreign Bodies in the Bron hi Lecture I II and III La 1 9 4 1 73 8 838

Foreign bodies gain entr no to the bronchi much more frequently than is generally believed The symptoms at the time of aspiration vary

greatly They are usu lly marked if the foreign body remains in the tr ch a and e pecially if it is movable. In some cases the are no symptoms Absence of symptoms has often led to the faulty conclusion that no fo eign body is present. As a rule infants and young children react more severely than older children and adults. The symptoms are always influen ed by tr uma and infection Fore on bod es in the trachea cause dyspucea

c) and a cough which is usually paroxysmal As a rule there is a loud wheeze more intense and of a higher pitch than the wheeze of asthma uscultation the breath sound are harsh a dloud

The diagnosis of fore gn body in the tr chea not d flicult if the e is a definite history of choking when an object was held in the mouth. When the foreign

body is opaque the \ ray is of great aid Diph theria is often confused with the pre ence of a for

eign body in the air passages The symptoms and physical findings in cases of foreign bodies in the bronchi vary with the size shape and the character of the bodies When a foreign body lodges in a bronchus it may plug the bronchus completely in which case a combination of pulmonary collapse and increase of fluid content develops. If it allows air to pas in but not out obstructive emphysema results. When there is partial blocking of the bronchus there is usually decreased expansion on the affected side with dimin where vocal fremitus and rough breath sounds Other factors v hich operate to a varying degree are the amount of swelling of the murous membrane the presence of granulations the amount of secre tion shifting of the foreign body and the effects of a previous bronchoscopic examination especially an examination unskillfully done

The character of the physical signs depends upon the nature of the foreign body the amount of printation and inflammation it has caused and the presence or absence of secretion. These signs are ant to change from hour to hour. The examination should include inspection palpation percus ion and auscultation Vegetable material such as peanuts grains of corn etc are especially hable to bring on acute and serious symitoms

The compliations include pneumothorax em pyema bronchial stricture and hamorrhage Bron chiectasis and abscess formation are regarded more

as sequelæ than complications The presence of a foreign bod in the trachea or bronchus should be considered in every case of re piratory tract disease which shows unusual features A negative history does not always rule it out The symptomless interval after the initial symptoms is responsible for many erroneous diag noses In many cases d agnosed as pneumonia and pulmonary tubercu or is the condition is due to a foreign body

icute cases are u ually caused by foreign bodies of a vegetable nature. The symptoms are severe toxxenia often being very marked. These cases are usually confused with diphtheria and pneumonia Direct laryngoscopy cultures and careful clinical and \ ray examinations of the chest should be made In cases of non-opaque foreign bodies the I ray diagnosis must be based on a study of the changes in the lungs

The chronic case must be differentiated from foreign bodies in the asophagus bronchial neoplasm aneurism and enlarged mediastinal glands

When a foreign body enters the trachea or bron chus it seldom is expelled spontaneou ly Nearly any object can be removed by skilled han is. The mortal ty is about 1 per cent. In case in which the freign body is a nut the prognosis) scrious e enafter ar ful removal. Aga and the length of time the foreign boly has be in present are also factors.

of importance in the prognosis

Removal of the foreign body is ind cate! Lifers to favor removal by inverting the patient are contraindicated becau e of the danger of impacting the foreign body in the glotts. With regard to trache otoms no set rules can be last down. It is better to epiforms e call poss bly unnecessary tracheotomies than to lose a patient by delaying the operation too long Cases should be thoroughly studed unless the condition is very acute and serious and due to a segrithful and the contract of the particular of the expertised in the contract of the particular of the hands bronchoscopy appears to give the best thance for recovery.

White more W The Etiol gy and Treatment of Non Tuberculous Pulm nary Abscess S & Gy 5 (b) 19 4 x x 46

One hund ed cases of non tube cul us lung ab scess are reviewed. In sixty six, the condition followed a respiratory tract operation performed under general anasthesia (forty eight tonsillectomies twelve teeth extractions two operations for the drainage of septic sinu es one adeno dectomy one operation for deviated section one operation for (ractured nose and one tracheotomy) In twenty two cases the suppuration follo ed pneumon a in three a sentic infarct and in one a broncho reso phageal fi tula Other causes were operations on malignant growths of the jaw and tongue and extensions of extrapulmonary foci (subdiaphragmatic or mediastinal ab cess empyema ruptured into the lung foreign bod s aspiration of infected water etc) In eight cases th cause was not determined Expectant treatment including po ture and oth r non operative measures resulted in a cure in from to to 30 p r cent of the cases Du ing steady im

Artifical prount for teatment may be continued Artifical prount horax may cure in a very small number of cases but is applicable only if the lung and panetal pleura are not adherent. It is an excellent means of determ mug the presence of adhes one lowerer after temporary rel eft in paroxysms of coughing may return a d there is danger of a embolism and tearing of adhes ons with re ultant

empyema

"John werey few cases early aspirat not the abuces by mans of the box choosepe m y effect a cure Surgery is indicated when oth r treatment fails fool long delay of operation may re ult in brain abucess meningitis epitermina x in son if the process to the other hard so the more delivery of the more delivery of the more delivery of the surgery of the

Case with address in I the vic ral and p rietal pieurs should be operated upon un be food anasthesia. Since the traction of the skin and local blocking of the intercevial in riv. boy and beds are sufficient for resects no done ril. For section of several ribs para certebral ansesthe as a preferable. If the abocess is situated in the anterir part of the lung parare tebral and I cal anasthesis may be used. The abocess is situated in the anterir part of the lung parare tebral and I cal anasthesis may be used. The abocess is situated in the anterior part of the finger uncerted to break up pockets; and a soft rubber drawn introduced. When an abocess is opened with least who had polymag occurs, that is ested over man before the six mobility of the control of the control of the control of the vector of the weeks. Chronic abocesses for from three to six months or lo ger

III there are no adhesion, some form of differential pressure anasthesia is advassible such as that induced ith Sauerbruch a negative pressure chamber. It Meltzer and Auer intertache I insufflat a pharva geal insufflation or a mask apparatus (it outs o it over the more mask). A negative pre ure apparatus prevent collapse of the lung and media t a dranger. In addition it learnitates surure of the lung to the check wall. When the lungs is not adherent the lungs to the check wall. When the lungs is not adherent the lungs to the check wall. When the lungs is not adherent the lungs to the check wall of the lungs to the check wall of the lungs to the check wall of the lungs to the check wall of the lungs to the check wall of the check wall of the lungs to the check wall of the check wall of the lungs to the check wall of the check wall of the lungs to the check wall of the check wall when the lungs to the check wall of the check wall when the lungs to the check wall wall was the lungs to the check wall was the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to the check wall was the lungs to th

re opens the wound and drains the abscess. Jat the literature the mortality of tuberculous ab cess of the lung is giv nas from 1, to 20 per cent in 1923; the author repo ted fifty two c set with the cases operated upon were cured or permanently benefited. The long t inding chron c cases with permanent fatules were also impro ed. Five per cent of the patients 1 as et he hosp fall mexclient condition but after a few months de elop a cough with expect on atom and slight hamorithage and results are influenced by the location of the abscess the age and general to ditton and other factors the age and general to ditton and other factors.

In conclusion the author states that the technique of operations performed upon the upper respirator, tract under general ansasthes a should be such as will reduce the dange flung infection to the minimum MALTER CHERE MD

Buil P R vi e C Davie II M nd Others Th Surgical Tr tm nt of Pulmon ry Tuber cul s Por R y S M d Lo d 9 4 S t M d & S g

The h Ing of tub real us proc ses is effected a rule by the de clopment of fibrou its e with scarry g a d retraction. In the lungs maximum shrinkag 1 dep ndent upo collaps e of the lung nd this can of be effect d by gas inflation if the rare addres no betteen the fullow r a and the passetal pleu a Wh us addresons for nd extra relural the onlast s and catted

Bef re thoracopia to 1 p formed the halths ing m t b pro d f fr m smptom Bull regards conditions as favorable for the opera tion when symptoms in this lung have entirely happeared or for a long time have remained stationary and of slight extent An \ ray examina tion of both lungs is essential

Slight involvement of the lary nx or of one kidney is not a contra indication to operation. Absolute contra indications are advanced tuberculosis in the other lung and any general condition which prevents

a serious surgical procedure

Before the operation the patient should be kept under observation and given treatment at a sana If possible the operation should be per formed before cavitation has taken place. However the cavitation form of the disease has a much more favorable prognosis as regards permanent cure after thoracoplasty than does the infiltrating form

At operation the patient is placed upon his normal s de with a sandbag to press up the di eased side The hook-shaped Sauerbruch inci ion is used Resection should always be made from the tenth or eleventh rib up to the first rib It is sufficient to resect from 6 to 7 cm of the eleventh rib 12 cm of the tenth and ninth and 15 cm of the following nts up to and including the fourth rib Of the three uppermost ribs as much as possible should be taken The amount of rib resected ar es from oo to 180 cm. It is important to resect the ribs as far back as possible beyond the costal angle clear up to the to tal tubercle and the point of the trans verse process. The criterion of a perfectly performed thoracoplasty is the ability to feel the posterior margin of the scapula lying in front of the posterior end of the resect d ribs

Bull always performs ap coly s that 1 he col lapses the apex of the lung by freeing t from the thoracic wall This step is of value also because it facilitates the resection of the upper two ribs The muscles and skin are stitched separately Very often a large glass tube is placed in the lower angle of the wound. The handage is supported by three broad strips of adhes we plaster applied horizontally so that the tho ac c wall which has been mobilized by the operation will not give way too much to the shock of coughing during the first few days after the operation. To collapse the apex it is sometimes necessary to transplant pads of fat into the extra pleural space

The operation is safer if it is performed in two stages As a rule from two to thr e weeks should elapse between stages Bull h s pe formed most of his operations under local næsthesia but is now using general anaesth sia more frequently and has found t entirely sati factors

Following the operation the patient complains for a f w days of dyspnera expecto at on and pain in the chest and upper arm. In the after treatment the compression bandage is of value and narcotics should be given. The pulse usually remains rapid nd the t mpe ature high fo four or five days

The large wound usually heal by first intent on and the patient 1 up at th end of t o or thece veeks

The sputum dimini hes rap dly Tuberele bacilli are greatly decreased in number and very often lisappear entirely before the patient leaves the

The si le of the thorax op rated upon falls in con siderably a scoliosis of the spine develops with its converity toward the diseased side and the mobility of the arm is impaired for a time because of pain but complete function returns unless the scapula is fixed The permanent inconvenience caused by the

operation is slight After the operation the patient should be sent back to the sanatorium for at least three months and if po sible for six months Improvement is evidenced by a decrease in the amount of sputum a fall in the temperature to normal an increase in the appetite and weight and improvement in the mental condition as well as by the disappearance of the tubercle bacilli. As the lung operated upon is never again normal the patient should never return to hard physical exercise

In some cases a rise in the temperature is ob erved as early as the day after operation. The most probable causes are (1) infection of the wound (2) pyamia from the lung cavity (3) acute infection in the healthy or di eased lung (4) spread of the tuberculosis in the lungs or other organs (5) parenchymatous degeneration of the liver or kidneys as the result of narcosis and (6) increased resorption of toxins CLAYTON F ANDREWS M D

Santy P and Guilleminet M Extrapleural Thoracoplasty in Dilatation of the Bronchi (Leth c plast xt apl u al da l dulat t on d s b o ches) Ly ch 9 4 27

On the basis of two ca es of severe bronchiectas s treated by extrapleural thoracoplasty (thoracotomy) the authors draw attention to the advantages of this operation in the surgical treatment of bronchiectasis provided there is very wide removal of the thoracic wall even when the les on is circumscribed

Extrapleural thoracoplasty or thoracectomy con sists in resection of the ribs in their paravertebral segment. The ribs are exposed by a long incision brought to a point three fingerbreadths from the spinous processes and extending to the superior border of the trapezous parallel with the eleventh The ribs are carefully denuded and resected with care to spare the vessels and intercostal nerves The total amount of bone removed amounts to 120 cm or more

When the broachial dilatations are apparently bimited to the high or low parts of the lung the thoracoplasty includes the seven or eight superior or inferior ribs but when the lesions are diffuse it may include the first eleven ribs Pegional anasthes a is employed. The operation

should be preceded by thorough p eparation of the patient by vaccinotherapy cardiac stimulat on etc The authors believe that thoracoplasty is indi cated in bronchiectasis for the following reasons

1 The cond t on is a chronic open suppuration

The interacts of the periting half too which is characteristic of trunchlectus' especially n th adult wells orl to therapeute m's ates with a c cutart active tens the agreements

e llag the raps are the race places

3 If pulmerary set is it put it an
eatent which refer the effect of the high cent t an Hiretana Heath the sel and is command to on greater trat nah hal well r motal f tane from the wall ler r saper es of r o erv 4 Introplural if a glaty beg n un

en at a bit one of the lit in technology take cula .

In 1010 that clothely the cone i to actual I tat o trat is great fitte fie net ter t that the class above he in seven teen the creation we can't inith treat time rigation of the bit the m

Acu with compet arrest fe has expet trains and competent rates at the fit general country from all Indians or of the general some there is a tiref been beens has abru h merto the free revolmathelam ! It nar! th far ty fitte fee tries

Will exel to other the toler treet th authors state the tof stop energy has had

team while letter free age to we of bli tom the over time et it is operated at emiliere exceptated to 1 second f

the ix ea

Lieut a titleblot es hil a other flasant utrdm istre arla rigto Sau le chi i feat I thranaithm to c wellt hel re a nametal of him r loter to Art Sci 1 ir smoth rat ha falled et ! Les se f th tresen e of a! + Tuf tagleutes i fal t threat his go a ser clisures. I results hat th authorately it he rar ly be nome and t ca cap tr In police ha al Im tedated caten and I no letter thin strap ur I thera

In the authors of no arrifeur loth rates that the lot is the tratment of have less immediate gravity is les than that I p until ms r! incurrent my Sch atta e levi I ten cases in which if r were no fit ties I a thru h treated thirt cases with a la to fath fut t and it authors the this tood it peration will The end results ompared weally with the se f the oth r method and if grown tom or 11 1 B th

HEART AND PERICARDIUM

Marrin H M and H rv y S C. Tl Surgi at Treatm at of 4dh rent I cleardi m / Im M 41 144 1 1 1

Although the value of cardiolyst d mo atr ted by Brauer twenty years age th much review of the I terature revealed the reports fonly t ents f eca exclair rent persard um tr atell. the method forth number Marin and Hane ald the far yar bla min with the 1 a somet me father nt renk t'un at ith h to I an attick to ut attoriar a umitten 16 me the fur to n ex ar tr al ar later nd atta of t e & trimi were rise to bar f fram i f

therets w three I rich Labra thesiat ed as ha o e per ce ta stor of procal tours lear in a warmal est et e Into t th at tr mat the le l'al the sere n't it withet in the anterne auf are ! te I ft ste The per ralf waant therre ofth litis. The pre-rail was and the region of the text in make must list to rea were 1 of 1 ac withth a int partith it ast wer to racted uma la l ut a ! Subjectionteal fescet in of the fruit flib a lashr as 1th rentiers "a enthital imp the rithem! the a fill at the terum the emoval of there so t math for the extraoliter a m oft lor cures d finta tetr cted mark hearth of tack is if reard vera case of a crises are the crises are the control of the thin fit per ortrano er that thand inthe as a remoch la ef etagre e t m leter gr a nelt ebe The waterack tinty is ith irterruftet 5 1 tres

keeves wa egit ant u e stfut art the war if and that ite ten

in the series that we performed the emthat I distage fibe to ft n Th hart to the title 1 the treets at matter me trails of the se restreamath in ocards is

In Lin MD

Cood II J 5 and Rogers, 1 Some 5 rgical Probleme of Cardiol sey The Techniq (Mitral otomy in J

Similar and fithicase finitellations are to treatment and the a flood from te left aur et th it ninde Seeth les aus esercially local and siller in a lan ed cases it is not am natif t cure t me cal man sugal inter mit 14 dear t th 1 th Lorentin TOT D r ki heb

It o just 4 th que to a t f mit te the passe of the 1 fm 1 th aur fe t th 1 nm The may be a mit bed! est li bigane tra cric mmumature mer of a secret peti nium rity in i gith obstruited mitral al Ih latter m ted n through the entrale r th au tel. The a thorse of the uncular route Post g the per carl um through an oster plast c g it between th a gus a I phren c f i rime rerves in t below the a person intercestal s in Th vin stad ull cur imitralotoms ke lethrough th auricul r wall sto th m tr l ornere and sht the contracted val tow rl the septum and ag in toward th auricul nincular en ve A suture placed about the pening i dr wi tight as the knife IMA W MD is with trawp

ESOPHAGUS AND MEDIASTINUM

After describing the anatoms of the es-ophisgua and discussing the characteristics diagnosis and treatment of the traction and pulsion types of discreticular he author reports two cases. Once ex as that of a man of 62 years. The discreticulum was small and was not operated upton. The other case was that of a man 73 years of age sho when first seen by the author had lost con derable seaghed and was partially stare of Palliative treatment as given for an months and a two stage operation then performed. A successful result was obtained.

Cicational structures of the ex-ophagus may re ult from an inflammatory reaction in or around the form an inflammatory reaction in or around the organ. The most common cause of such structures is the engestion of a solution of household be. Children are most commonly affected but adults may develop such a structure from drinking be in an attempt at sucude. Other cau es of benign structures are the swallowing of strong acid the retention of foreign bodies in the ex-ophagus the vometting of pregnancy ulterat not of the ex-ophagus courting in typhod fever mediastimits secondary to preumonia and scatler fever supports on of the appendix and other inle tons. In a cons devable number of cases the etiology is not e selent

The diagnosis is usually made on the has s of the history but in many cases the condition must be differentiated from mahgnancy by exophagoscopy

Treatment of such structures consists in gradual dilatation by means of sounds with the use of a previously smallo ed silk thread as a guide. The results of treatment are very a tisfactory complete and permanent relief being always obtainable if the dilatations can be carried out for a long period of

Since January 191 1 4 cases of benign escoph areal stricture ha e been treated at the Mayo Clinic. In this number there were six deaths following instrumentation. The average number of dilatations was ten None of the patients developed malignant degeneration in the scar tissue. Gastross tomy, is seldom necessary and involves definite re-

The authors report two ases of tumor of the medi stinum in children and a study of the literature on the subject with pecual reference to the cases of children.

Both of the authors cases had an acute onset simulating pneumonia and both patients were ad matted to the hospital two or three months later because of their failure to recover. The findings of the physical examination suggested empyema. In both cases there were definite deformities and the roentgenogram showed diffuse shadows from which classifies of timer could not be made positive to diagnoss of timer could not be made pattern to tumor cells. In one case the supration of a few hair established the diagnosis of teratoms.

One case was operated upon under ether anas thesa \(^1\) tumor was found densely adherent posterori\(^1\) and to vard the perceardium elsewhere it was fairly free The tumor was dragged out of the chest and the perceardial adhesions were freed The patient show el ever shock but rallied Post operative empyema caused death nine months after the operation Pestmortem examination was not obviused Examination of the tumor excised showe! it to be a mediastinal teratoma

In the second case autopsy revealed a large nodular tumor which was for the most part retropleural and showed the histological picture of papillary cysto adenoma. The stroma was made up of connective tissue of varied appearance and areas occurring as bundles which strongly resembled smooth muscle but lacked differential staining properties. In some portion the stroma was embryoning in the protron the stroma was embryoning in the protron the stroma was embryoning in the protron.

CARL A II DBLOW M D

MISCELLANEOUS

Thomas G F and Farmer H L The Diagnosis of Primary Intrathoracic N oplasms 1m J
R tg 1 924 u 39

The author diagram the problem of differential



The differential diagno is indicated in this diagram can be made in almost every case. The renefice shadows may be made the diagnost the properties of the p

Carcino n I f mas i klar tul reul) is male this mistake uncommon. No exper in such cares it a rare that the physical gas bused history and

roei tgen in Ing agre

The differentiation bet en b mgn an I malign it ne plasms may sometimes be in hate I by the clin ical progress and m il id f growth of the tumor s reveal d by repeated to nig n e aminations of its r right; from different angles Kapi I gro th an in lists of hor! r projections rads ting from the tumo m s multiple no lules est lence of metas tases to the riles or ttel ta an I pleural effu jon in licate malign nev Lack of growth an I maintenance of a shatt! lefine i bor ! r are sign suggesting ab sence of malign nes fro mofth theory richter the pre ure of a ben gn tum ras sharp ly lim te i to the contour of the tumor sha los it elf

The point of origin of the tumor may be in licat ! Is the location and listributi nof the ma 4 Mas 1 e tensit f the existerior me trastinum exten it g bilat ralls and comparatisels clear lung f Ils sug g t a me ha tin I origin especially if the lateral har lers ar smooth and I an-cut Un lateral helar invol ement e e1 ith media tinal fensity is uggestive of prim is I conchial careinoma

The lifter nti I diagn i of meta tatic processes t usually n t biffcult. The r nigen ray findings are fr mently nathognom are as in cert in cares of m ta tatic sarcoma or are suggesti e l'ecaus of th ir li tributi a through ut I th luns. I ven in cases that imulate termany carcinoma the hist ry or accompanying gas I the primary les on u u lls nake he rentistion po it

Ster oscope leus are if the gratest sal: nl hould all yet made in case of primary ar i In dullus executoms of the ut per l be hich is the I I most frequet il involved the lo r ber ler of th I nits is shirth will I and th upper Lirl eft l'sout into the at t sh hisu u llise m t rativ I clar Some cases of hilar a man h wa ma sold n tty about the hilum with rai a ti ne aten ling along the I ronch il branches lut thinning out sometimes abruptly n ar th h1 m Other cases sho a mr treahed wat ut th hilum

far centesis should be f rf rm I in all ca es in h h there s a 11 ural flusion I th cas th n tu li l'immediat li by roentgenog aphy est i ill if the flu 11 sangum us The r turn of the fl : 1 in malianant cases; u u ily rapi i within twenty four hours the quantity may b the ame as b fore e m val This is en suggests cof milgranes Th with leaved of e en a sm ll am unt of fl it my r veal n fules prev sust hilten. What hir appears to be a large amount of fluid in the chist without displac ment of the heart to the apposte si fe the possibility flung turn r must be con r ler 1 Small circular n lule of moderate d nsity 1 rg r

than o dinary tubercle and surrount illy talls clear lung suggest milighancy esp ially if few of them are f nd along the same br nch and th den its of the br nch is increas 1 as would th case in peril conchial is my h infiltrati n

Il sigkin s i ea e and lymphosarcoma may simulate a hilar carcinoma very cl sel The blog ! p cture involvement of the sur critical lymph nodes and rat I reaction to mild roenty a radiation will I lo to estable h the de gno s The authors ha e seen very marke I h lar density with infiltrate a along the larg r fronchi that af peare I clinically to be due to syr hiles

I ung tum is are rarely diagnosed el mi ally. Th best m me of arriving at a correct I agnosis of pm mary intrathuracic neoplasms is the combination of a will taken history a thorou high sical e amina tion the i le ted laborators tests and a careful r entgen exam nation I HY L. DILS MID

Hener C J Intrath acic Tumors (19 4 1 15 670

Hurrirts a mes of ight cases of intra thoracic tumor which were of unusu I interest from thest is nt (pathology as well as that of dia no si an i tr atment. The pathological classifi ation in luled calcited cost a rooms of the rbs xan thoma-the first cale of ganthoma of the bony thor a reported-and an an urism In one case there is a fillerence of or mon as to wh ther the tumor wa a ham r hay ce stora chondrosarcoma In three cases of circum cribe lencap plate I tumor the pathologic I fisgo is was adothed ma of the [] ura. The outstanding sympt m in all cases was mun Cough w a I finte gn in thre in one of the there are purul nt putum and in a other an

attack of hem physi In the case f calcif f cyst a liagno is of pl ural effu on was in le and an e ploratory aspirat on

attemet i is the nee if m t esistan e an explor

t ry operation w forf rme ! In the a ond e | ipal tumor of the rib of sto y har lness I it the cor ct liagno is of

In the thirl cae the chi i motom were low al lom nal gain and lumbago. The gate at ha f bee sul ; cte i to pendectom; but as not r hev d The \ 12 hone I a sm Il but d finite tumor a ar th h re shal wan I be g gainst th ertebra

In the fourth case the pate at had been ker tur ! : prolonged observation because tuberculosis "as su je te i on account of hamopty s The tumo d n the \ ray to in the upper part of the thora plate producid a ery din and high curcum s ribed his Ada no s of ten gn tumor wa male Mi us oft ex mn ti ash elthe growth to be a 1 n ir my soma

in the 1fth car a dag ous of intratho cir tum r a mad n the basts fa e y ll defined halus a the upp a part of the thor x The pat ent h i hat \ v and e dum treatment du ing a per d ffive v r without rel f Of er t ilt mor li bi asels al . an en lothel oma a a palpabl tumor In it si th cae th att hed to the ath and ightherb At first

il s wa bel sed to b a sarcoma but on patho lg al xamination it el 1 s lothel oma

In the seventh case there was a tumor attached to the minth and tenth ribs. The positive diagnosis was made before operation from aspirated fluid which showed tumor cell.

In the eighth case v high ha I been studied I v a number of observers a diagnosis of intrathoracic tumor had been made largel on the basis of negative Wassermann tests failure to obtain a response from antisyphilis treatment and absence of pulsations

observable under the fluoroscope

Two other cases in this series both with expan ile
pullations were diagnosed virongly as cases of
aneurism.

The operations were performed under ether anæsthesia without differential pressure in six cases under nitrous ou le-oxygen anæsthesia with differen tial pressure in one case and under intratracheal insuffiction anaesthesia in one case. The exanosis and tachycardia which were noted in one case were relieved by pulling the lung outward into the count.

Six of the eight patients recovered from the operation. Two died soon afterward one with symptoms of pulmonary embolism and one from rupture of an ancurism. Of the six patients who recovered two were hing and well fixe or more vears after the operation two were hiving and well two jeans after the operation one died four months after the operation being unimproved by a decompressive thora excetom and one died ten months after the operation from recurrence of the disease.

CARL 1 HEDBLOY M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Pettit J A Tascia Plication in the Repair of Inguinal Hernia St g G & & Obl 9 4

In brief Pettit's technique i as follows

A curved meason in the skin is made as high above rought is figured as possible with its cont uty upward. The fibers of the external oblique are split order to obtain a long inferior flap from provided in the content of the content

GASTRO INTESTINAL TRACT

Struthers J E Multiple Polyposi of the Ga tro Intestinal Tract S g Gyn C Obst 9 4

Multiple polyposis of the gastro intestinal tract is not as uncommon as was formerly believed. Recently the number of correctly diagnosed cases has been a gmeated by the roentgen ray. Twenty four c ses have been observed at the Mayo Chine since February. Togo. Twenty of these are reported.

The di case is servous from the standpoint of mother, by as we'll a mortality. The cause is not known but chronic upon the collists appears to be an important factor. The author describes the gross and mixto copic finding in detail. In a large per centage of the cases the disease terminates in malignancy. In the series of twenty cases ele enspectimen were removed and of the latter five (4.5 per cent).

ver malignant.
In a cons deration of these cases i o practical problems are confronted the advantage of a post tree diagnoss and the danger of agarvaning malignancy, by trauma. The former decidedly cateeties thatter as the growths are superficial and easily approached. V diagnoss of malignancy in a local ited area which is made early should certainly out a more fair or able to make a more advanced stage of the disease.

The symptoms vary with the size position and number of the polypi Generally patients with polypi localized in the rectum and sigmoid have a sense of weight a loaded feeling in the rectum and Involvement of the colon first causes a sense of tillness and later a vague abdome pain which may be localized at the sate of an olvement. Complete or partial obstruction of the bot of results in stass and the formation of tooms which have an inhibitory action on the prox mil section and cause distriction. If this is progressive a jumpitums other mask the conditioning and a ties of involvement in a mask the conditioning.

Proctoscopic examination should be m de ro it e ly n il casse of dysentery of more in n a feu days duration Examination with the roentg n ray is practically the only means of diagnosing mult ple poli posis of the stomach or abo e the reach of the

proctoscope in the bowel
There is no specific medical treatment. Undoubt
edly operation off rs th best results in all cases
If polypi are localized in the treetim coutern; ton
or ecc ion may be done. The patient should be
kept under observation and if uny signs of mally
anney develop resection of the rectum abould to

nancy develop resection of the rectum should be performed. When the growth are le cated elsewhere in the gastro intestin 1 tract—eth r of two procedures may be employed 1 richel—colosiomy or int unal resection. Colo tomy carrie—it is the traction and the danger but is not alway, cert an in its result Intestinal resection is associated with grave danger determined as accurated in a possible ement must be determined as accurated in a possible ement must.

Bell J R and MacAdam W The V riations in G stric Secr tl n of the Normal Indi idual Im J M S 19 4 | v 5

Bell and M c vdam by means of the fractional method made a study of the gastric response of a healthy person to the same test meal under the same condit in on in early one cutine days. The lowe i and curse wa obtain d at the first condication of the condition of the curse if the hydrochloric acid and total acidity we ed of a char acteristic type and the degree of cidity varied between a mild and a definite hype chlorhydria.

The rate at whi h the stomach w s emptied which wa remarkably constant th oughout the e tire investigation was confirmed by roentgen ray examination

The standard deviation and the coefficient of variation of the acidities of the different specimens at corresponding times were determined. The coefficient of variation for both free hydrochloric acid and total acidity was lower in the or-hour specimens. That is the acid values of this fraction varied within the narrowest rang.

The findings following the use of oatmeal gruel vere compared also with those following several of the other test meal comm nly employed. The tea and toast meal provoked a slightly greater acid secretion than the aver ge obtained with oatmeal

If a low or normal acid curve 1 obtained on the first examination and the clinical history suggests hyperchlorhydria the test should be repeated before a high degree of audity can be eliminated

MORRES H KARY M D

Cochrane G Cong nital Hypertrophic Pyloric Stenosi in Infants C 1 to & II 1 M J 924

The author reports on a series of forty seven cases treated since 1914. In thirty three in which operation was performed there were two deaths. In fourteen medically treated there were two deaths.

Of the forty seven patients forty two were bors and five were girls. The ager ranged from 5 weeks to 4 months. The nearly three of the infants were artificial is fed. The duration of the 53 mptoms ranged from one to seven weeks. The infants operated upon had to 4 at least 20 per cent of their body weight.

The diagnos was based on a history of mechan all obstruction constipation mucous stools rapid I so of weight visible active penstalus from left to right and occasionally a palpate tumor A fluoroscopic e amination was made to distinguish between pylotrospic mand steme is no obscure cases only. The author does not agree in the Haas that both are the same.

The treatment should be medical as long as the cond tion progresses well and as long as not more than so per cent of the body weight is lost. West of the case reviewed were not seen until late.

The Fredet Rammstedt operation was done through a right rectus incision and the abdominal wound closed in layers with silkworm retention sutures

In the postoperative care glucose or salt solution as given by the dry method or under the skin Feeding was begun one hour after the operation—a teaspoonful of warm water alternated with diluted breast milk every two hours. The amount was in creased gradually to full feeding on the fifth day

The lives of a greater number of infants with congenital hypertrophic pylonic stenosis would be saved if all babies with projectile omitting constitution usul sign of obstruction were more carefully atched.

The author draws the following conclus ons

1 Ether anasthesia is p eler ble to local

2 The Fredet Rammstedt operation is much impler and more quickly performed than gastro enterostomy and therefore preferable to the latter

3 In most cases the differentiation between pylor or pasm and stemosts is clear. Thuroscopic examination should be resorted to only in doubtful cases as the patient is too ill to be loaded up with barium unless this; a jabolutely nece sary.

4 Patients under observation should not be allowed to lose too much weight before resort is had to surgers. After the los of 20 per cent of the body weight they become poor operative risks. The high mortabity is due to the fact that many of these cases are seen too late to a word or eration.

ROSERT M GRIER MD

Dragstedt L R and Laughan A M Gastric Ulcer Studies 1 th S g 924 11 791

The authors studied the effect of exposing various trusts to the action of the gastine juice in experiments upon living dogs. The mucosa of the lower doudenium upper jejiumu ileum and colon was exposed. At the end of twelve months the mucosa was still intact and on in croscopic and macroscopic examination appeared entirely normal. The international and muscular layers were less resistant.

In other experiments spheris with unimpaired blood supply, and with or without their capsules vere exposed to the action of the stomach juice by implanting them in the stomach wall. There vas no destion of the spheric us sees. The old theory that a mutious covering is nece 37 to protect a provided crossess. See the old theory of the spheric user of the spatial price vas provided crossess.

In a third series of experiments kidneys with in tact blood suppl and with or without their cap ules were implanted in the wall of the stomach. There was ro direction of the exposed tissues.

In a fourth series of experiments the had legof h mg frogs were exposed to the gastre, up es of dogs. Lest tubes containing the juice were loosely little about the legs by mean of rubber damp placed over the top of the tubes and perforated. In each great containing the containing the containing the expension of the containing the containing the were both digested but the uniquisted leg the depeation was much shown.

In a fifth series of experiments the legs of himfrogs here exposed to the pastice juice of frogs. At the end of two hours the skin had been completely different and at the end of four hours there was considerable destruction of the muscle and connective to use

ti et ue.

In a sixth series of experiments gastric ulcers were
produced in dogs by injecting under the gastric
mucosa a solution of a per cent nutrate of silver and
then place is from to a tyle to be used.

produced in dogs by injecting under the gastine mucos a solution of a per cent nitrate of silver and then place g from to niv to that to success of heave, linen thread in this size of its dogs treated at the manner four showed unhealed les ons three and four rouths later. The administration of alkalies materially hastened the healing of the ulers. This

was due not only to neutralization of the gastric juice but also to partial immobilization of the pylor us caused by the alkalies

I speciments performed to determine the relation between ulters and hyperact 11; showed that in dogs an experimental ulter may intere e the were too of gastine junce during the d gestion of a meal When the acidity of the junce la low the pro-listion of the lesion may intrease it A time hyperacidly in of the lesion may intrease it A time hyperacidly in the standard of the lesion may intrease it A time hyperacidly in the many interesting the many interesting the interesting the many intere

Jos L Bas M D

Hurst A F Th Treatment of Se e e Ga tric and Duod nal Hamorrhage La ! 9 4 cc 1

Hust believes that hemorthage from gastine and douoleau liters is far less frequently fatal than is generally supposed. In cases of harmateness he has rever I en of ling I to call in a surgeon to save he patients life. A review of the autoput records of it was a liopstal London for the period from just 10 to o inclusive re call doub, literals the education of the citizens of the control of the citizens of the control of the control of the control of the citizens of the control of the citizens of the control of the control of the citizens of the citizen

Of their invocrance in the medical treatment of hervorringe is completer as in bed This keeps the blood press ure down and prevents the d lo Igennet to the newly formed clot. The t much must empty and r attacte? Repeate! hypoderm c in jections of imorphine keep the patient drowsy and oversome his apprehension. Along res inhibits, the great promoting the patient drowsy and oversome his apprehension. Along res inhibits, the great promoting the properties of the patient great promoting the properties of the proobution and the administration of saline solution by h pod mpochysis are essential.

The author keeps the storm ch empty by passing a stomach the just be post the cardiac entries and ashing repeate [by with about 4 or of ice cold water until the 1 ashings return clear A 1 to 6 feric chloride solution may be used instead. Brailly 1 of a 1 to on dereain chloride solution as youred into the stomach. The latter measure a sepect 10 ferticise in a few means of the same of the same of the cardiac story of the cardiac story of the same of the same of the few and the same a

S re the danger of recurrence of the bit ed on depends upon the digestion of the blood clot over the ulcer site. Hurst Is or; the administration of magnesium onation to neutralise the raid secretion. The patients blood should be grouped and it the hemoglobin falls below ye a blood transfix no should be grouped and it the should be grouped and it the remoglobin falls below ye a blood transfix no should be grouped and the property of the proper

tion in the acute stage is the occurrence of se ere persistent bleed ng in an elderly person with arteriosclerosis

The daubor cites stati (see to proce that the habits) to bleded is just as great after an operation for gasten or duodenal ulcer as after medical treatment when it he pattern hab hammorphage previously or not. The only definite indications for surger, are bourg this contraction and plane obstruct on bourg this contraction and plane obstruct on each categories. The only definite indication are read categories and in medical freshim of infection are read categories and in medical freshim of the open companies.

May C. H. C stroduodenostomy Its Indica

Within the last fen seast it his become generally recognize I that not infrequently all energies he on no simptioms. Care is with mill as my timm of bleed ing mity not be reg gints [as cases of ulter ann more read it than tho e in high there is no bleed up but to e with e eve hatmorthmer are re on red at once as probably cases of ulter. Many there had once as probably cases of ulter. Many there had unler onservation et extended to may there with the last feet after gastion entero tomy. The Many mentioned has a method or a cure in a sufficient remaining a last season of the many to the sufficient to the sufficient may be sufficient to the sufficient to the sufficient may be sufficient may be sufficient to the sufficient may be sufficient may be sufficient to the sufficient may be sufficient may be sufficient to the sufficient may be sufficient to

The arious pro du es developed for th surgical r lief of gastric and du denal ulcers pres nt vari tions of techniq te on f a pri ciples. The method of perat on chosen should be su t d to the particular case The author d cus es the Billroth I and H operati as and the variations in tech que intro fisced by Kother Hein ke Mikulicz Fi ev Leretta Hihn fol a Bilfour a 1 II berer If the outl t the new p loru formed in the Bill oth I procedure is small slight i claim of the anterior wall of the duoder are will enlarge it perimete for suture to the stomach. The dang roff Lage foll in ga tric r section is greatly re lu d by th Il Mayo procedure f draw, g a fold f the omentum through the opening in the gastroc lc m mbrane behin't the stomach to reach and cov r the suture line of the les et curvature a ell 5 the poster or gastroduodenal meis on and to pre ent adhesions and fi at on f the storrach to the pa creas The anterior suture ine is co ered in ih am mann r

hy a strig ffeld of om ntum Th author prefers a la ge flap gastrodu de o tomy to the narrow o cof Fin ev Hi pr edure: so ad pt d that t excise anten r pylon ther low gastric o duode al le ion The clos r is made by uturing form abo dow begin ng at the d uson of the polo ic muscl and uturn the duod n m to the tomach The l e of ture is continued out on the flag f lu 1 um 1 sto th pale ope g big gritly enliged and lover d The op rat n ni half g tru nt rostomy It d not empty d nio an ra of small bo el una ustom d to them It cannot b f llo ed by gratroj junal ulc r g tro

princole uler with fully such as may follow posterize gaster and to the same degree as does gistre and to the same degree as does gistre and to the same degree as does gistre are often equally possible. However, and the procedures are more common in cases in which high acids emply 1 for the junior which is not fitted to receive

Gastro enterostoms does not always cure ukers but even with is not erromate general application in this been found an emment! successful procedure withen it is properly personned in cases of procedure wither it is properly personned in cases of procedure or obstruction due to where it results occur movily a small percentage. Gastroejunal ulcered evel opin in not more than 2 per cent. The effort to advance the adoption of upp r due lo beard and partial gastric resection by attributing to gastro enterostomy and high percentage of fullures freque at secondaries and a high mortality was a great mistake. Gastro enterostomy has estable bed tis re ord

On the basis of nine cases Lee n traws the following conclusions

t There is no es ential difference bett cen the end results of operations for perforated ulcers and those of operations for non perforated ulcers

2 The addit on of gastro enterostomy to dissurung of a perforate! gastro or duodenal ulcer appears to as ure better and more fasting recovery. In ca es of perforated, pust polore ticle a gastro enterostomy is indic tel as a supplementary measure when ver the patient's condition will allow it.
3 Pylorogastric resection for perforated ulcer de so not allowly prevent serious complications. In

des not al vays prevent serious complications. In certain cases this procedur may be less radical than it appears.

4 In operativ by ured cases of perforated gastric

or duodenal ulcer a recurr nee of the ulcer or a gastroje, nal ulcer m v develop after several years of apparently good health

5 With regard to cases of gastra and dunderal ulcer it is advasable to use the words recovery and radical operation with discretion and in a restricted sense as 1 to recurrences are possible. To die the surgers of gastric and duodenal increases because in the proposition of reaching the cause of the disease which is still unha win. W A Dee v.4%

Because if the importance of maint iming the operative m tality rate as low a possible it is sesential that surge is become familiar 1 ith the cheffact is contributing to safety in gastric surgery

The fir t consideration is the a 1 isab lity of operation. Chronic gastric ulcer u ually indicates immedi-

ate operation because th operative risk is insignificant when it is compared to the danger of permanent disability. Isostopiement of operation may be war rained to allow the patients condition to improve As doodenal picer; I less serious contra indications to operation are more numerou and medical man agement may be dividually allowing the low risk and excellent results of operations have no justification for non surgical measures ineffectively prolonged. In carcinoma of the stomach hos ever much greater risks may be accepted since the only hope of cure; given by operation. The problem of the advisability of exploration has been greatly smpl field by reordgenological examination.

In cases of peptic ulcer pre operative preparation is usually not necessary but may be advisable if there are complications such as obstruction animum

or hæmorrhage

The chief factors of safety are in the conduct of the operation. Probably the safest anasthetic is a local anasthetic combined if necessary with a small amount of a general anysthetic. Ethyl ne appears to represent an important advance in the field of anasthesia.

The first rule is that the operation should be completed as expeditiously as is consistent with careful work it is essential also that the operation selected be that which is best stuted to the Isson. The next important factor is proper performance of the operation. The fundamental principle is adequate drainage. An anistomosa should be large properly placted and protected against subsequent inter the avoidance of tension and the control of farmor rhag.

In the postoperative care the attention 1 first detected toward the prevention of pulmonary complications. Rest for the stomach should be provided by grung Ph. 48 by rectum. If acute distanton of the tomach is suspected the stomach tube should be promptly used all going takes place into the promptly used all goings takes place into the promptly used all goings takes place into the stomach state of the stomach state of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of any complication depends of course upon its early recognition and treatment.

Poynton F J Acetonæmia and Volvulus of the Small Intestine in Childhood La cel 1924 cc 7 1045

This article is based on a series of five cases in young children. The signs of the condition were recurrent attacks of vomiting and ab home part consupration an actione odor to the breath of the presence of large quantities of actions and did act it acid in the urier. The phy real facility we gat it. There was no poliphile tunder may and no abdominal distention to suggest a suggrad lesson. In every case the condition was fattled, the action of the property

small bowel was found. The greater port on of the small intestine was gangrenous. The mesentery was unusually long and was twisted on itself clockwise.

It is pointed out that acctonamia in childhood is a symptom. The diagnosis may be difficult especially when there is a history of recurrent attacks of nausea somiting and constipation. Sectionamia may occur as a fit ting and trivial symptom or as a symptom of evidently gr ve import lem nd ng surgical intervention. Jos W. Nizik M.D.

Owen A W Remarks on the D gnosis and Treatment of Chronic Intus usception B / W J 1924 i con

Chronic intussusception 1 a disease of adults being rare in children. It may be present for weeks without producing obstruction or bloody stools

On palpation a sausage she ped tumor and an unnatural emptuess in the right ihac for a may be left. In Still's cases the tumor was palf attel more distinctly when the patient was askep. The X r y and id not help in the diagnosis. The condition has been writaken for appendictis and tuberculous Still described a typical or en a child as follon s

The patient vas seared suddenly with pain in the abdomen and somitted on or twice. During the n ties day he had several other attacks of comit ing associated vin the clock by in. These attack then became fees frequent ocurring only once in two or three days. Bove how ment which hid occurred daily before the enset of the condition became less regular but ap irrush had a good effect and the stools were normal containing no blood or became less regular but ap irrush had a good effect and the stools were normal containing no blood or be seen in the stools of any consupated child. The symptom that floodled the child ap rents most vas the wasting. The temperature remained pormal

Reduction of an infussioneption is usually not very difficult. After the reduction a fe. Lember sutures are ne essary to close over the pertioned tears on the wall of the intestine due to the separation of adhesions. If the intussioneption is irreducible or gangenous abort circuiting removal of the intussioneption through the enheathers layer or reaction with end to rad anisomous should be attempted. Resection has a high mortality Usually the mesentery is a habornally long and the example of the mesentery or though the mesentery of precious of the mesentery or desired in the procession of the proces

Mcke ity J Chronic Duoden 1 St nost S Gyn c & Ob! 1924 xx 1 444

The type of duodenal stasis discus ed is that re sulting from compression of the duodenum betwee i the rot of the mesentery (with its contained mesen teric artery) and the aorta

The findings at operation are the following
Dilatation of the duodenum throughout 125

r Dilatation of the duodenum throughout rent re length

2 \arrowing of the angle between the superimesenteric artery and the aorta sufficient to obliter ate the lumen of the bowel at this point

3 The pa sage of the gas into the previously collapsed jejunum when the root of the mesentery is raised

4 Thickening of the wall of the duodenium Compt soin of the duodenium by the rost of the mesentery is probably the result of the erect posture of man a net it does not occur in animals. Other factors in the civology are the hab tus and vis ecroptosis but of greater importance is a loo e execum with a long pairetocol c fold which everts traction on the mesenters of the small bows.

The symptoms ugg st dispepsia and di case of the gall bladder and appendix. The feeling of gas and of di tention is rel eved by the assumption of the 1 teral prone position. The routigen ray examination will definitely reveal the presence or absence of diudenal stass Non-ope atter measures consist in the wearing of an abdominal belt and postural treatment.

The operative treatm nt consists in duodeno pejuno tomy or inciss severe cases suspension of the accrum ascending colon and bepar is flavine. In a duodenojejunostomy the duodenum is exposed through the transverse meso lon between the right color and the flocobic arteries and the anastomosis is made in the usual manner.

Since 1914 the author has performed duodeno jeju ostomy in thriteen cases. There was one operative death. The appendix was removed in eleven cases and the gall badder in two Nine patients we recured and two were greatly benefited. In one case the result was unsatisfactor.

Diamond J S N wer Phase in the Roentg n
Interpretati n of Duodenal Ulce im J
R / ig l 0 4 x 3

The indirect method of rocatig a examination based on hypermorthity hyperperistals a hyper tomicity etc. has no cost losse value in the diagnost of duodenal ulcrs; particularly in the early stages. Changes in the configuration of the duodenum are of conclusive value. These are best studied in serial receivements of the configuration of the duodenum are of conclusive value.

The anatomical factors which exert an infl ence upon the configuration of the duodenum in ulcer are t. A localized thick ming and reinforcement of

the muscul tu e along the l sser curvatu e border of the cap. This simulates the teni coli and may be c lled tenu bulbi duoden. The suscensory effect of the duodenohepatic

The suspensory effect of the duodenohepatic

3 The formation by (1) and (2) of a supporting st acture or fulcrum on the les er curvatu border of the dioden m As a result of these f ctors ulcer ti n causes

As a result of these rolls during the adjoining structures so that the ulcer overrides the lesser curvature and the localized

contraction narrows the lumen in the segment bearing the ulcer

The roentgen deformities in duodenal ulcer are (1) the niche commonly on the lesser curvature border (present in 66 per cent of the author's seties) (2) the defect (3) retraction and (4) diverticula formations The defect and retraction are spastic manuestations and may or may not be accompanied by the niche. They sel for represent the ulcer base The administration of belladonna for forty eight hours and a milk det i ill usually relax the spasm and permit the 's walization of a niche The diverti cula are of the pulsion type and are proximal to the ulcer They differ in size an I shape during the exam nat on and were found s x times in the series of thirty c ses

The literature contains the reports of numerous ca es in which an ulter was present without ans palpatory sign of ulcer at operation

In the author's opinion a negative surgical diag nosis is not justified unles the duodenum is opened CIARLES H HEACOCK M D and inspected

Apperly F L. Ga tro Entero tomy Observation on Its M chanism and on the Production of Pain in Duodenai Ulcer Wd J 4 / 1 924

In a study of twenty seven postoperative cases thirteen of which had been studied before operation it i as found that they fell into two groups viz those in which the free acidity was reduced and those in which the acidity was not reduced or was in creased

Apperly believes that the n ut all at on of acid which occurs normally in the duodenal cap results in the relief of pyloric spasm and therefore in the relef of pain (astro enterostomy in the presence of pyloric spasm results in the empty ng of the stomach contents into the duodenum and a con sequent backing up of the alkaline duodenal con tents toward and into the Juodenal cap with neutralization of the acid there and rel ef of the spasm and Fam

After gastro enter stom an \ ray examination made at one time may show all of the food passing by way of the stoma while an examination made at another time may show it passing entirely by way of the pylorus Therefore non function of the stoma cannot be diagnosed by one \ ray examination

Exclusion of the duodenum has no effect upon postoperative acidity

Bile was present in the fasting contents of the stomach bei re of eration in 17 per cent of the cases and after gastro enterostomy n 54 per cent of the t st meals contain d bile

A certa a percentage of patients show high acid to after gastro-enterostoms. High a idit with symp. toms after operation suggests a faulty stoma Operation gave a compl te cure in 63 per cent of the cases presenting definite gastric or duodenal ulcer and caused improvement in 31 per cent In o per cent it failed DE VIS W CRILE M D

Cancer of the Duodenojejunal Lundberg S tet ch u e See d 1024 1 A 7

The author reports a carcinomatous stricture in the duodenoierunal flexure of a man 64 years of age who had suffered from periodical attacks of vomiting for ten months Factors of great importance in the diagno is were the roentgen findings and the gall colored vomitus. At operation, the duodenojejunal flerure was resected and the continuity of the intestine re established by end to side anastomosis Histological examination showed the lesion to be an a lenocarcinoma Three months after the operation the patient was vithout symptoms

Cuny J An Unusual Mechanism for the Produc tion of Internal Strangulation by Meckel's Diverticulum (Un méc n me rare le l pr duct du et angl m rainternen rd erticule de Meck l) Bil et i em Sc a al de Pa 1924 xc1 133

Six days before admission to the hospital an apparently healthy child 4 years of age had a sudden attack of comiting and epigastric pain. The pain soon became general throughout the abdomen The passage of faces and gas was arrested and repeated enemas given during a period of three days were ineffectual. The facies suggested peritonitis The pulse was 140 the temperature 38 degrees C and the abdomen markedly di tended and rigid

An emergency operation revealed a little sero sanguinous flui I in the peritoneal cavity and a long loop of small intestine strangulated by a Meckel liverticulum adherent at its tip to the execum. The diverticulum was situated between as and so cm from the ileocæcal val e its base was 3 cm in diam eter Italumen was filled with ascarides lumbricoides The strangulated loop was freed by division of the fibrous adhesion of the diverticulum. The intestines could be replaced only after they had been freed of faces and gas through an incision. The abdominal wall was closed up to the deocacal region the intes tinal incision and the diverticulum which the author intended to remove at a second operation The child died that night

The author emphasizes the importance of the ascarides in the pathology He assumes that at first the diverticulum contained only a few worms and that the inte tinal loop engaged behind the caco diverticular band became strangulated when the number of ascarides increased sufficiently to stretch the diverticulum and render it turgescent

Cackovi reported a case of volvulus which he attributed to violent movements of the intestine stimulated by ascarides in a Merkel diverticulum

The local complications associated with the pres ence of ascarides are (x) mechanical obstruction by the norms and (2) an infectious process such as cholecystus appendicutis diverticulitis intestinal ulceration or perforation with general or localized peritonitis or abscess

The complications due to Meckel's diverticulum are classified by Wienecke as (t) obstruction by adhesion of the diverticulum to form a band (2) obstruction by a free diverticulum through the formation of a knot or the occurrence of volvulus and (3) pseudo-ob truction or paralytic obstruct on from diverticular peritonitis

BALTER C BURLET U.D.

Brockman R St I The Problem of Drainage in Acute Appendicitis B t J S g 19 4 x 690

The trend of opinion in recent years is toward the elimination of drainage in acute appendicitis as far a ros, thic with safety

Facal fistular secondary hemorrhage residual abscesses and the formation of intestinal I an is causing obstruction are much more common and convalescence is le s comfortal le and more pro longe! when draininge is establi hed than when it is avoided.

The rest tance of the pertioneum to infection is explained by the absence of a rapidly acute tension causing its use destruction. The greater rest tance of the pelvice pertioneum as tompared with that of the petit neum in the upper part of the ablomen is use to the lookeness of attachment of the former in the upper ablomen the membrune is firmly all the pertineum of the substance of the liver and handhrasem.

The all-sability of dr mage depends upon the state of the peritoneum. The question to be decided in every case is whe they the dam ge done has progressed so far that complete return to normal would be impossible after the removal of the primary cause of the inflammation.

If closure is effected without draininge the peritoneum must be intact at the time the abdomen is closed and must remain intact after closure

The author divides cases of appen liciti into the following class s

Class 1 ca es in which the condition is that of a frankly localized abscess with granulating alls which bleed freely as soon as the pas is exacusted In such cases drainage is indicated whether the

appendix is removed or not

Class B cases of or heary acute append cits in which the appendix has not become grageronous or perforated. Free fluid may be absent or if present is just becoming turbud. In a series of yoo such cases treated by appendictions follow? To you have cases treated by appendictions follow? Deam any closure there were no untro avid results. Drain age is necessary only when the appendix is burted in a mass of old a libesions the rem. all of which denudes a large area of its peritoneum and c uses comme.

CORNING C cases of gangren us or perforative appendictive that diduse pentionities. In such case appendictive that diduse pentionities. In such case as fewer capecially the embedding and the such cases and few capecially the embedding appearance of the pentioneum have obvivusly undergone a destructive change closure without drain ge would change the potential abscess into an actual absces. In the statement of definite a grad discernible to the eye the following facts must be borne in mind I Cases in which the condition has been present longer than three d ys are more apt to require draininge than those dealt with earlier

2 A child of 12 years or under with a gangren us append x and purulent fluid in the pelvis will not stand closure as well as an adult with the same con litton.

3 The degree of towns: can be judged with considerable accuracy from the patient's general appearance and fatial expres n. The presence of cyanosis without dispanca; a sign of advanced townse. It usually forted a fatal ending an is a clear danger signal ag inst closure without damage it is believed by many surgeons than an exudate.

with a purulent appearance is pus which d mands dramage. The author states however that drain age of a pus containing cavity is necessitated not by the contained fluid but by the on dition of the walls of the cavity. This is true in the case of the personeal cauty Wilkie holds that an immed ate examination of the fluid will give the necessary information. He claims that the absence of I rge mononuclear cells their failing no er of absorbing stains and absence of phagocytosis are e idences that drainage is required. The surgeon can usually rely upon the gross characterist cs of the exudate The greater the amount of fluid fou t the safer it is to clo e without drainage provided the exudate however purulent it may be is homogeneous in appearance. Dramage is required in cases of gan gren us appendix with dry periton tis of the diffuse variety in those with a blood stained purulent exudate in those with a large numb r of definit flakes of coagulated hopph and in those with an exulate which has been described as resembling beef tea Apart from these conditions the pres nee of a purulent perstantis does not of itself demand drainage

The degree of gangerne or perforation of the appendix matters intile in the question as to the ad authority of drainage provided the organ fee free in the pertoancil civity. If it is bound down by adhesions or is extraperitonical its rem vial leaves a reason of the control of

warning that closure may cause ser ous trouble Drainage is of three types () local drainage (2) pelvic drainage (3) saf it valve drainage. In all instances the material used is rubb t bing

Local drain ge Local drain age is called for when the invaginati n of the appendix stump is insect e when the format on of a local fistula is te ted when the te is local oo ing and when there is an above s cavity shut off from the general pertoneum

Petri drainage There are very strong factors against the use of pelvic drainage. The the becomes shut off from the pento cal cavity in a few hours and the only indication for the use of drain in the pouch of Dougla is the pes nec of an abscess carty in that region at the time of operation.

Sofely rolte d unage Safety valve dranange can be provided by passing a tube just through the inceison in the parietal personaum. The spaces in the abdominal wall should be drained to prevent disse cellulates of the walls—a tube to the person neum a tube under the external oblique aponeurosis and a silk-norm gut it is ta dobe the anoneurosis

The question of drainage can be definitely sattled only by a true understanding of resistance to infection. If a patient possesses strong resistance it is immaterial whether drainage is estiblished or not. If he lacks this power trouble is to be expected whether drainage is established or the abdomen is closed primarily. Howary 1 Mcknurg MD

Rockey & E. Transverse Inc sion and Dependent Dramage in Appendicitis At S g 9 4

In operations for appendicatis the author has use! a transvers incison for eighten years. This extends from over the belly of the right rectus directly across McBurney, a point to a point just above the ill ac spine. The rectus sheath is cut and the aponet cross of the external and internal oblique and the transversalis are incised transversely. The incision is spr ail open by up and down traction a large area of pentioneum being thereby exposed. Exposure is facultated by pertactors in both end of the incision. The appendix can be readily delivered vithout coal tammation of intestines.

When the appendix occupies the pel se po ston a When the appendix occupies the pel se po ston a second to the second se

LIVER GALL BLADDER TANCREAS AND SPLEEN

Mann F C A Consideration of S me of the Func ti ns of the Li e S f C 1 4m g 4

The function of the I er; dt custed with regard to three general considerations the relation of the liter to carbohydrate metabolism to prot a metabolism and to the formation of the prignent. The conclusions gt en were drawn from the results of a large series of experiments on the ff ct of total removal of the he er from dogs. It is emphasared to the conclusion of the conclusion of the conclusion where not complexed by portal obstruct on anxisthesis or oth to lections.

Mirthel rirmo dirmadg thanimal recovers ir m the anaesthetic and fo a few hours usually from the et fie appears n rmsi During this i me it will walk around respond to call wag

its tail and eem no different from animals subjected to other operative procedures. After a variable neriod it develops a very constant characteri tic group of symptoms These in the order of their occurrence are muscular weakness loss of reflexes muscular twitchings and convul ions. The time elapsing bet een the first symptom and death is seldom more than an hour or two. The symptoms mentioned were found to correspond closely to the decrease in the sugar in the blood. They can be prevented and the animal maintained in a normal active state for twenty four hours by the adminis tration of gluco e or substances t bich are converted into gluco e in the blood of the dog. Many other substances have been used but glucose is the only substance with this a tion. It has this effect a bether given orally by iciumostomy or intravenously

Mer hepateciony the glycogen content of the muscles decreases sho in ght at this source of glu cose is being drawn upon. It is as noted at o that transitors, hipperly, crams toose following an asthesia asphyxia the administration of certain drugs such a adrenalm did not occur if the live vas removed. In the hypergly crams following pan cratectiony the blood sugar is immediately decreased after hepatectomy. The hiver undoubted his primitally concerned in the regulation of the normal is primitally concerned in the regulation of the normal

level of the blood sugar

I roten metabolism as markedly affected by te moval of the liver Antino and exerction in the unne and the amount of amino and introgen in the blood are increased. Creatinne creatine metabolism is not affected. Ure acid accumulates in the blood and large amounts are excreted in the increase. Urea formation depends entirely on the presence of the liver Following temoval of the liver the decrease in the urea content of the blood is the decrease in the urea content of the blood is the decrease counted for 1y the exerction of urea in the unne. In the hepatectomized animals whose kidney, also were removed the blood urea remained at a constant level for the entire course of the experiment, which is several instances was fifteen hours.

Dogs become jaundiced following, complete removal of the Ver V thin sutteen hours the selecter and rucous membranes are definitely yellow. The wine secreted a fev hours after the operation contain bile pigment and the plasma shows bilirubin within as hours the arount of bile p gment in the blood as hours the arount of bile p gment in the blood around the properties of the properties of the centure addominal. Years are removed the bile pigment found us the bood urine and itsues must have been formed outside the pertinence leavily.

The liver plays an important part in the metab olism of carbohydrates and proteins but is not es ential for the formation of bile pigment

D Takats G Som P blems of Jaundice and Their Significance in Surgery 4 5 g 1924 it 66

By means of a simple chemical reacting two types of jaundice can be distinguished viz chokemia and

I I rul inemia. Chole sia re ulta from a d sturbance in the life flow or freempetenes of the h natic cell while ! rul names results frem an overe n luction ef la rub n l et increase i ham bens

Il fueba ce ef fiver farcth n results fa a frerea e in the licer ng and e age I then t me see itiveness ta nare ties a d'a marked acri mi after peration The fee a caseful e etermination itte li er func to n is of great importan e

Her are of the tanger of th lam a the pat at should be sul jected to operate n'as so n'a g' cibl

All r four weeks the in bration i pre et Hamol to munice can be cured by it at mi although it is no always . If to cure the unit . ling ties Incases of the mt prof the hamor

that ceases all two coert my alit uch the ince aw in th black the test only temporary Deck by an UD

Herd C. C. MacNesl W. J. and Killian J. A. Il patitis in its Relation to Inflan matery Disease of the 4bd men 4 (Tinical and Labreatory Study Im J OF/ L C mg 21

Have falls cert in 1 er ch ages a sociated with chanicat for i Is feetle who he after the puts at anin al de en alteraucers ulas e altrieren n Microscopi exactination were madm as of feer removed dunny the warse forers ters for scute al chronic appendicute and fir

alcer and carein ma of the s ma h

When m crosses in his criphage a more research these were un f really d tril sted throughor t th n hi k be of th 1 r Th left h be a na sh wel e itemer of the same path to wal groces but hir it was less intenie. (It as mall the I richances w remark mor mark 1th 2th a wei tel changes in the gall the fir apper his or t mach The gree ere or absent of a nes in the gall tailer I not seem to make much difference. The essential (s) hom ity of th I ments were app rently infective proces ar i (2) persisten i a certai legge of intensity of it of entire ag at h meal ne blochemical

In catarrhal t pes of apper bonus at h lecs tit s there was a thickening of the amule of the liver with ocia malls a the was thick a ag of the anter r ber er er tun swelling and surf e

d moline In localized g il il if r i sease the hinges in the area of the gall to it rees in were in re intense then elsewhere and the quality fith hange ared inversely with its I tance from the gall by Id e In these c ses the m rescoul examin t in of th h er secta n slowed ubcapsul r hamphocytic infil tration and intercell lar lymphatic inflir t in If there was an acute infl mmation in the appent z or wall bladler lencocytic infitration a merg I with Is emboxytl infiltrat n When the abelon nal con ditta n w s es entially chronic th surfac changes n the liver became more marked and more diff se and there was an increase in the size of the liv r

The liver was grossly enlarred in about to per cent of the cases ar I in about 90 per cent of the cases the entary ment was confined to the right libe ar ! particularly the outer ar I postery r half of it is lote

In the more charme cales the um o mifbros swas more marked hove connective | i u was found ; abun lance about the I le ducts and portal se as and blestasis was mea parent and was seen tell with home a and the full of framation by ucts Leucocyt c and herth eyth inflitate n ex ten leit between the Latten I and distorte ! I er e il Many of the latt r showed vacuo and d his I t grat 's ar I occasional, sot are leter and int r c I I to gment will fatty ' generation a Thenati cell estructum In rare instances h perplas a of the I witter than san lan in e so in the ancatist cel al hurrer weef u d Armarently the was no d finite para et m bet een in gro aar i qu'l stative I ver hanges and the paths ogical slage I the a secured at lown a leard tom. In som cases it was apparent that the force of the affection was seert on the one sally infected soons remote from the lace in oth to the I re of the offend og ag t any aren'ty prod ted the greatest layary on the li r caus g minimal changes in the extrab patic news

The latter eiten he well wel estable hed repair When a death i ll we are energined upon th est real I hars ta. age at a generally attributed t the d velorment of shock hamorrhage chokem t e sa tese idatation. When the d ath, that might he a tof sted t any of these causes are el minat there at I remains a small number which to 11 pot

be en larred

The auth r I tings her three types I chaired but he e f il wed langest my for the on two treatm nt of pathelo cal wal two f the aid men The first s resent a clinical pictur of a post peratite as motor tepres son c urring too lat to be inter creted as surgi al abock to the end of from twents out the rey six hours without any prace teause th patr nt ; se into a pronounced state of vaso motor collapse char cteriz d by collness of the eatr in ties my their of the skin marked stimula the of the train a da f coal pressi n not unlike the facles of fear

The second type of clinical picture is noted usually at 1 the fifth day. The pittent slowly becomes stuperous and in the ourse of from twel e to twenty four hours passes into c ma. The temperatur rises to tot or tot | grees F This cond t in is essentiall a coma occurring in a patie t with a dirtinishing

obstru ti jau idi e

The third type of cun cal p crure is noted immedi tel, alt r veration on the gall bladder sometimes after rath r simple operation. Howe er this lethal implication t em nates a l og hist ev I gall blad ter ir bil ary fuct infects n As a rufe there has The onect is char ctenzed b been no 1 and c coma lmost immed stell after the operati Ordi and th pati at does a t recover from the ar asthesia. The temperature rises to 104 or 103 dertees I with marked accel ration of the pulse

sul sultus tendinum carphologs and talking de In rare instances there is marked motor broom excitation

Whether or not the liver is primarily at fault in these three conditions is not known. The liver reacts to long-continued or habitual toxic irritation by two pathological processes viz degeneration of the liver cells and proliferation of connective tissue Thes proces es apparently go on simultaneously Degenerating areas are ret faced by connective tissue and intracellular material and as the result of the replacement and contraction there is atrophy of the parenchyma of the hyer. The author beheves it reasonable however to assume that the conditions described are in some manner a sociated with liver disfunction

MACKEAL found the fiver subject to acute puru Int inflammation secondary to severe purulent di ea e in the intestinal tract the gall bladder or the bile ducts These conditions result in a marked liminution of the specific liver parenchy ma and a more or less marked increase of the fibrous tissue of the cap ule and the interlobular trabeculæ The liv r participates in a great variety of general dis ea s and especially in severe infections and intoxi At operation the surgeon notes u ually nlargement of the liver with rounding of its mar guis or opaque bands of fibrosis in the liver substance n ar the gall bladder This enlargement is evidently due in part to excess of fluid in the liver congestion and ord ma especially when there i an acti e in

flammation in the gall bl. dder or portal territors

Under the mi roscope the soft swollen liver hows general d latat on of the vascular channel and a rich infiltration of the conn ctive tissue trabeculæ by symphocyt s and smaller numb is of polynuclear leucocytes. In the more actue inflammations the endothelial laing of the cap flaties may be visibly thi kened. In the irregularly cul rged liver the microscope re al debnite porque thickening of the connective tis ue trabecule and usually an excess of mall bile ducts in this tissue. I imphocytic infiltra t on is mor or less mark d appa ently depending upon the presence or absence of exacerbation of the inflammatory process. Li e libules of irregular form and arrang m at may be ree gaized. They loubtle s indicate actual g onth of the liver substance The firm smaller liver reveals under the micros ope a still more m rkel ex es of fibrous tissue in the trabeculæ

LILLIA states that in su h ca es th carbon loxide combining power is markedly increa ed also e the normal representing from 81 to 100 volumes per cent. Of si cases recentl studied four terminate i fatally Il of the latter ere ca.es f chronic dise se of the gall bl dder subjected to simple operations. It has been determined that the increase in the carbon dioxide combining power is a sociated ith a d crease in the hid ogen ion con entration and that bence there is a true alkalosis

In many of these cases the non protein mitrog n acceeds the upper normal level of 30 mgm per 100

c cm The urea nitrogen on the contrary does not show a corresponding increase in fact in some case it is subnormal. These findings indicate a corres ponding increase in the rest nitrogen In many cases of gall bladder disease there 1 a mild hyper gl camia of from 0 140 to 0 00 per cent Associated with this increase in the blood sugar there is an in crea e in the activity of the blood dis ase

An increase in the cholesterol content of the blood has been of served in cases of obstruction of the biliars tract due to calcult new growths and other

mechanical causes

The calcium and fibrin contents were found to be normal This fact however does not contra indicate the use of dilute solutions of calcium chloride to decrease the coagulation time. Clotting requires ionizable calcium. The chloride content of the blood was found to be normal except in cases show ing an increased carbon dioxide combining power In the latter 4 decrease in the chloride concentration s as noted EDWARD L CORNELL M D

Friedman J C and Straus D C Bitirubin Determination in Cholecysticis Without Jaun die Jam M 1 1 94 lt 11 1248

The no mal biliruhin blood concentration 1 o a to o 5 part in 200 000 parts \ I isible jaundice o curs and bilirubin is excreted by the kidneys only when the blood content is 4 parts or more in 200 000 parts The Fouchet and the direct and indirect van den Bergh are qualitative tests of hyperbilirubinamia

In Van den Bergh's direct test 025 ccm of Ehrlich's reagent 1 added directly to 1 ccm of serum from 5 c cm of bloo i 1 hich has been allowed to clot a d has been centrifugalize! In obstructive jaundice the color of the serum changes from a pale yellow to a violet or pink because of the formation of azobilirubin In non-obstructive jaund to the immediate direct reaction is negative or appears only after a delay of more than a minute

In Van den Bergh's indirect method r ccm of serum in 2 c cm of alcohol is centrifugalized and to r cem of the supernatant fluid is adde to 25 cem of Ehrlich's diazo reagent. A positive test has a color change similar to that occurring in the direct method The indirect test is positive in both ob structive saund ce and non obstructive saundice Hence a negative direct reaction with a positive indirect reaction ind cates non-of structi e jaundice Occa onall an increasing jaundice of cholecystitis has a po sure indirect and a negati or delayed direct test in th early s a es and a str ngly positive direct reaction later. Hence the jaund ce of chole c) title is at first toric with I ver cell damage an I

later obstructive In normal blood the Ehrlich re The Fourhet oxilation test con i is in mixing from 3 to 5 d ops of Fouchet re gent with an qual qu nt to of blood scrum on a porcela n surface Hyperbili ubinæmia of 1 60 000 or 0 er results in a green color Fouchet's test a not po tive for n r mal serum but is specific for bile pigment

action is only indefinite or faint

Fourhets test as recomment of tre clinical puir poses as simpler and less ensaitive than the Van den Bergh test reacting only when the Hood serium contains a pathological amount of bilirubin. At though the Van den Bergh test is more deheate the Fought regard through it so at lingar action may break up combinations of bilirubin vi this solitations. Fairly the production of bilirubin vi the Vallengench of the Fairly testing the Vallengench of the Vallengench of the Utative Internation of bilirubin as of only relative viule because of complexiting substances.

In a study of twenty nine ce so of cholecust its hperblithunamis was fund in % per cent—in o) per cent during the attack and in 73 per cent during the interval when there were, gastice symptoms but pain was absent. Ninety per cent of the cuses of cholecustitis without evident joint showed hypethil rubinermia. Bit huming and he when the attacks the bile pignent increase in the desired when the attacks the bile pignent increase in the stones of other chincal page of the orabinetee of stones of other chincal page of the minimal to the control of the desired in the control of the control

The presence of hyperbilirubinamia differential s clotecystitis from gastric and duodenal ulicir or acranioma but not from incumons. Litent juin lice was found in 50 per cent of non seteric cases of preumonia. Hipperb litubinamia may be present in acute endocar litis splenomegab, and permicous parmia. Wattre C Berse T M D

P(raire Calculous Cl olecystitis and Calculous Appendicitis Cholecyst ctomy and Appendec t my Rec very (Ch le) t ! t | p d te al uleu es h h le ystent m ! t ppe d'ecct m guft a) B il et men Sec ! t d P 9 4

The patient a woman 37 yers of spe gave a hatory of degret we dusturd ances enterities the part of the dust and painful areas in the equiparties and it occast person for a pen 1 of friency years. There he do not not not so that of the enterity of the many of

Ch I cystectomy and appendictomy were done The adherent thickent I gall bild ter contained if teen c leuli and the appendic enclosed a bihary cylculus embe ided in mucus. The patient male an uneventual recovery. Walter C. BEREET M.D.

Frdmann J F A Clinical and Operative Con ideration of Traun tized Bile Ducts 1m J S 1 9 1 7 17 97

The author goes into consi lerable d tail regarding the causation and type of bilitry fistule. In connection with the causat on he discusses varius p the ological processes and the most common errors in demonet tions on the bilitary tract.

Erdmann classifies 1 jur s of the bile d cts to two groups—leaking and non leaking injuries He urges thorough properative treatment especially in the cases of lebil tate | patients This should conat in decreasing the coagulation time of the blood ty the use of calcium salts and blood transfus: n

an I measures to improve the gen ral condition.

In describing the technique for the repair of a traumatize d b le duct Erdmann emphasizes the importance of its mag a tube of the proper size an I leaving it in position f r a sufficient length of time to permit union of the duct. He believes that dra mag of the wound is undesirable except for approximately forts, eight hostic statements.

The article is concil ded with a report of eight cases which have been under the nuthor's care

Jus. V. Borrer, V.D.

Bohmans n G A Case of Cyst of the Comm n Bile Duct 4 to k of Sc d 924 1 44

The auth r reports a case of so-called id opathic cost of the common bile duct in a boy 3 years of age Choledochoduodeno tomy was performed success fully in two stages separated by a short interval II e first stage cons te i in the formation of a fistula lead of to the ant fore abdom at wall.

About fifty cuses of this type have been reported in the literature In the auth is opin on the condition should be described as a dilatation rather than as a cyst or districtuolin as it is then riskly a distention of the r troducedensal portion of it will be a distention of the r troducedensal portion of it will be less than the constant of the results of the constant of the cons

McClure E C. J nes C M Wetmore A S nd Reyn Ids 1 Studies in Pancre tic Fun ti The Enzymi Concentrat in s f th D oden I Contents in Health and Disease 1m J M S 1024 1 640

The duo lenal contents studed mere obtan ôf from normal persons a d those with p thological affections of the princreas liver or gastro intestinal tract. The enayme concentrations vere determed by estim ting the act inty of the prior object of position and amy loly tie enzymes which were active in alkaline media.

I roteolytic act vity was estim t d by all w ig the doubtenal contents to act in solution of cases. The case in not affected b the proteolytic en yime was then procept tated with metaph phot c act solution. The index of proteolytic concentral a was taken t be the umber of miligrams of non prote anticogen left in solution, and the content of the cont

Amy lolytic act try vasest mat d from the num bet of milligram of plucose dev I pel by th act on of a standard quant to of duodenal ontents in a solution of starch. The inde of amy lolytic con centration was taken to be the tot I number of milligrams of glucose developed as estimated by the method of Folin and Wu for the determination of

sugar in the blood

In polytic activity was a timated by allowing the dioderal contrets to act on a true emulsion of cotto seed oil and determining the amount of acidity developed by utraining with tenth normal odium hydroxide solution. The index of lipolytic concentration, was taken to be the total jumbles of cubic centimeters of tenth normal sodium by droxide necessary to neutrialize the acidity developed.

The duodenal contents were obtained by sipt on age with the gastroduodenal tube the subject re

chning on his right side

In the study of the fasting stomach tensty two specimens were obtained from six normal persons. The amounts ranged from 20 to 135 cm the color was a pale 2 flow and the viscosity varied from slight to moderate. The proteolytic concentration ranged from 1 to 5 mm of non protein integer and column hydronale and the amblob tic concentration from 0.1 to 6 mm of 10 for mm

A study was made also of the effect of meals of moderate size upon the enzyme concentrations For this purpose 1 semi solid meal of milk and cottage these perspersing a moved deet of protein fat and catholydrafe was used. During the four did not solid the size of the siz

Studies were next made of the effect of single food ubstances on the enzyme oncentrations. The feod ubstances used were casen edestin object oil and arrow root starch. After digest on these substances repeared in the duodenal contents either immediately or within a period of the entymnutes. Except to the presence of the foodstuff there was no annut.

to the presence of the foodstuff there was no appar in change in the cha scire of the contents of the fundenum and no acrease in the enzyme concentrations until after from ten to forty five in nutes. The color of the cont into the changed abruptly from a pale y lior to a dark brown or very dark yit on and the vectors and enzyme concentrations.

ncrea ed

To determine the effect of the ing stion of ster on the enayine concentrations the contents it in a ting stomach were collected for thirdy intuitive the contents of the content of the co

the same or was decreased. The resultant enzyme concentrations were comparable to the cobtained for the contents of the fasting stomach.

These findings show very definitely that the en me concentrations of the duodenal contents vere very much greater after the ingestion of food than after the ingestion of water. They demonstrate also that although it stimulates the secretion of gastric juice 1 ater is a less potent stimulant to the secret on of pancreatic juice than food ingestion acid fluid is ejected from the stomach into the duodenum From this it is concluded that some thing more than the mere ejection of acid gastric contents into the duodenum i necessary for the definite stimulation of pancreatic secretion. It was demonstrated also that there is a relationship be tween the degrees of enzyme concentration and the Lind of food ingested. On the other hand, no relation was found between the enzyme concentrations and the degree of acidity of the duodenal contents

In one series of experiments water twentieth normal hydrochlone acid glucose solutions and allow oil were introduced directly into the doodenum. The results were exactly the same as those obtained after the integration of these substances by mouth

In a study of the enayme concentrations of the duodenal contents of patients with or, ane pan create duesase it was found that in case, of acute or chronic leasons which did not involve the heat of the pancreas the concentrations were normal while in cases of destructive lessons involving the head of the pancreas such as cancer acute pan retail persons and chronic pancreatities with or without extensive involvement of the glanditally paracoly in the concentrations were abnormally low. The intermediate value between normal and abnormally low concentrations was achievement.

low The intermediate value between normal and abnormally low concentrations was characterized by normal concentration of one or two enzymes and a decrease in the others below the minimum normal.

Normal concentrations were found when there was no obstruction to the pancreatic duct. In one of three cases in which a diagnosis of cancer of the head of the pancreas had been made no bile pigment wa observed in the duodenal contents while in another the duodenal ontents were pale green. However the finding of normal enzy me concentrations in these cases east doubt upon the diagnosis of pancreatic mal gnancy At laparotomy a stone was foun i in the common duct in each case. In three cases in which calculi obstructed the ampulla of Vater the first examination showed the enzy me concentrations to be much below normal. In two of the cases ro bile at all was seen and in the third the contents nere a pale green After repeated lavage with mag nesium sulphate solution the duodenal content showed bile pigment and normal enzyme concentra tion On the other hand in four cases of cancer in solving the bile ducts repeated lavage failed to be followed by bile in the duodenal contents. In two of these ca e in whi h there was a cancer of the head of the pancrea involving the pancreatic duct Livage did not produce a change in the abnormally low enzyme concentration. In the two other cause the panereatic duct was not invol ed and the en 2) me concentration was normal

A Dis Mil

Waugh T R and MacIntosi D S The Ill to gene is and Nature of Gaucher's Disc se 1 ch Int M d 1924 x

Since there has been a great deal of discussion re garding the cytogenesis of the characteristic large round oval or polygonal single cells or multi nucleated cells which compose the bulk of the splenic tis ue and account for the sil nic enlargement in Caucher's disease the authors attempted to thro I ght on this problem by examining a pleen in high

the Jesion was not far a lyanced

As a result of the studies made a feview of pre 1 ously reported cases and a consideration of allied conditions the conclusion is drawn that the sple nomegaly of Gaucher is essentially a rrimary and probably a congenital progressive system c d seas of the hamatopoietic tissues characterized by an alcularnic dysmyelosis the cells arising from the slumbering my eloptent cells of the reticulo en lo thel al tissues of the hamatopoietic organs. While little is known regarding the etiology it is brob ble that the cau e is a con titutional anomals LMB. C. R. B. PSBFR M. D.

MISCELLANEOUS

The Differential Diagnost B tween Cope 1 2 Acute Ti oracle and Acute Abd minal Lesi n hrit M J 924 700

Thoracic disease often produces rain high t referred to the abdomen and renders the dagnos s difficult Conditions frequently confused are parietal and disphragmatic pleurisy pneumonia ca diac an l pericardiac disease cholecystiti a leaking

duodenal or gastric ulcer and app nd citis Colicky pain indigestion constipation darrhera are u ually a gns of abdominal disease

but acute are n licitis and the perforation of a duodenal ulcer may occur vithout warning. In cases of chest cond tions there is a ually a bistory of a col f or chill or exposure to infection

The characteristics of the two types of cond tions are as follor s

mire yes Il ah g itheek h mes d'lata am of he of pose a parmo ary Pos km | bed 1 rai dec b pleurlay and pneumon proted but cardiac cond of ibel tvaldeci

for fire fire if Sunt't hary b h Tempe t reno m l h mat T mier R to f pulse t teopra w

Immobil y f telumin l ∍m bel y Phre sc paus omnova hos 1 b experiment kle pulm y d was neo layer mathes eou hype mathes 14 below pa as x tellwith ptildm is evaluate som mer stor of h ad es en pro-i f blemen Unitational pa t the on phos

- 1 b re lorsa pa. Often tes i real m 5
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Tes god T may be occur Ten k la pa se presen Nec 1 sames and may eve l t By only f Blent hes

> P INP J Mes MD

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GYNECOLOGY

UTERUS

Thomas Complete Urinary Retention Caused by a Fibroid of the Posterior Wall of a Ret o flexed Uterus (Retent on complet d 1 pa un fibrome de l paroi posterie e de la matrice n retro fle n) B i S dobt i de gyne d P r 10 4

218

The onset of acute retention preceded a menstrual period by a few hours. On vaginal examination the cervix was found directed upward and forward two fingerbreadths above the symphysis In the hollow of the sacrum was a firm tumor After catheteriza tion which withdrew 70 c cm of urine the patient began to urinate spontaneously every five or six Operation was decided upon after seven hours days On prehminary catheterization 3 liters of urine were withdrawn

The anatomical specimen consisted of a retroflexed uterus with two large fibroids on the posterior wall and four small fibroids in the fundus

The failure to empty the bladder at the first attempt was due to separation of the lower portion of the bladder from the rest of the cavity by the protruding cervix

Elongation of the urethra and elevation of the bladder are two important factors causing retention of urine and the tumors most apt to produce these conditions are those situated in the cervix or the posterior wall of a retroflexed uterus

Direct pressure on the urethra is effective only when the softening and hyperamia of the tumor occurring during menstruation allows it to become molded against the symphysis pubis

ALBERT F DEGROAT M D

A Review of a Series of Cases of Miller C 3 Fibr ids of the Uterus from the Records of Charity Ho pital VOI 5 H & S J 1924 1 xv1 40

This article is based on 150 ca es admitted to the Cha ity Hospital New Orleans during the first few months of the year 1921. More than of per cent of the patients vere colored women. The youngest patient was 20 years of age and the oldest 76 years In 30 4 per cent of the c ses there was a history of dysmenorrhæa Forty-one per cent of the married patients were sterile. The known duration of the tumor ranged from one month to twenty two years

The symptoms complained of were pain men strual irregularities urinary symptoms such as fre quency and pain and general symptoms such as a feeling of weight digestive disturbances chills and

The Wassermann test was positive in 17 per cent of the cases and smears were positive in 13 per cent Three colored patients had both syphilis and gonor

rhora. In no case was the hamoglobin below 40 per cent and in only eleven was it below 70 per cent

Of the 150 patients twenty three were not oper ated upon for various reasons seven refused opera tion and in the remainder operation was contra indicated by cardiac renal or pulmonary disease or by active syphilitic lesions

Supravaginal hysterectomy was done in 66 per cent of the cases complete hysterectomy in 21 per cent and myomectomy in 8 per cent In the re mainder the treatment included vaginal removal

colpotomy and radium irradiation

In forty two cases the growths were in the lower uterine segment in eighteen they were intraliga mentous in nine they involved the fundus in eleven they were in the posterior cul de sac and in two they encroached on the vagina

The tumors were multiple in all except one case and ranged in weight from 5 to 30 lbs Associated carcinoma was found in three cases

and fibrosarcoma in one

The morbidity of the supravaginal operation was 25 per cent and that of total hysterectomy 27 per cent The length of time the patient remained in the hospital was about the same for both operations

The five women who died were subjected to supra vaginal hysterectomy One death was due to fibro sarcoma one to sloughing myoma one to broncho pneumonia one to peritonitis and one to shock and hæmorthage I EDWARD BISHKOW M D

Cotte G The Treatment of Uterine Fibromata Anatomoclinical Considerations of a New Series of 121 Cases Treated in a Period of Eighteen Months (Sur I tatem nt des fibromes uten s on der tions anatomochiniqu's sur une nous lle sén d 13 mal des tratés e di hut mos à la Cl mque Gy col gique) Lyo ch

During the past eighteen months Cotte has treated 121 cases of uterine fibroma. In two cases an emer gency operation was necessitat d by other conditions but did not save life Of the 119 remaining cases fifteen were treated with radium and 104 were treated surgically

1924 XXI 2 4

In the cases treated with r dium there was one This was due to ethyl chloride anasthesia induced for exploration of the uterine cavity before the radium was placed In two cases the end result was poor

In the 104 cases treated surgically there were fifty two total bysterectomies with fifty-one re coveries and one death thirty subtotal hysterecto mies with twenty nine recoveries and one death eighteen vaginal hysterectomies with eighteen recoveries two abdominal myomectomies with one recovery and one death and two vaginal myomes

tomics with two recoveries. In four cases a localized

phlebitis developed

Radium is indicated only for small fishermata or fibromation stites with memorrhagia. In cases of fibromation stites with memorrhagia in cases of large complicated fibromatis it fails to effect a cure and when not indicated sadappears. In the store cases, there were fifteen cases of panful fibroma and cases there were fifteen cases of panful fibroma purchaging the store fibroma such conditions as polyfibromations uterus fibroma such conditions as polyfibromations uterus fibroma such uterus fibroma such conditions are polyfibromations uterus fibroma colling or scoring or fibroma fibroma evolving in asoptic excesses etc. Operat on resulted in a cure in every matance

Added to seventy five cases which Cotte previously reported this series of 121 cases confirms his opinion that before a patient is subjected to rad unteratment it is necessary to determine accurately not only the anatomical character of the tumor but also the functional disturbances it causes in order to differentiate a lesson which should be treated sur

gically from one amenable to rad ation

Hanks M E The Roentgen Ray as a Remedy in Fibromyomata and Other B nigh Gynecolog ical Disease A Review of 222 Cas s Rod | gy 1924 1 317

Large tumors conforming to a favorable type may yield to treatment with the X-ray. One tumor extending an inch above the umblicus has entirely d app acted. Age is of little importance in the effect of rad ation. Thenty of the patients were under 20 years of age and tweet of the patients were under 20 years of age and tweet of the patients with the more gradual should be the application of the X-ray in ord r that suffice at time may be given for radiastiment.

readjustment. The fibroid tumor most susceptible to the \ray is the harmorthagic introduced by the tumblicus and occurs in a woman 40 years of age or over In 75 per cent of 160 cas so fibroids in which the treatment has been completed no tumor is demon

strable
Of a see nd group of patients treated about 10 per cent are free from symptoms and in excellent health Tumors much reduced are gr duany becoming small? In 7 per cent of the cases the co. dit on was relieved the tum reduced and r dered mol feasive and the memor use established but there exceeds a consistent of this group deet. The control of the properties of this group deet are read of the control of the cases the control of the

Simple follicular cysts of the ovary origin ting in the graafian follicles and blood cysts of the corpus justeum are also modified by the \(\chi \) ray. They either rupture or recede and are not followed by others No patient with crossion and degener ton of the cervical glands has failed to rega n perfect health and in every instance the leucorrhosa has gradually disappeared

In five cases pruritus vulvæ vas cure i during

In hamorrhage of the menopause the \ray is almost specific when the etiological condition a fibrosis hyperplasi of the mucosa or chroe endometritis EDWARD L CONNETT M D

Pate! Thee Cas of Uterine Fibroma Treated by Radiotherapy and Then Operated Upon (T de fibr me the srd ther pespu pere)

Ly hr 022 x3 221

The author reports the effect of the rad otherapy on the size of the tumor the hamorrhage and the operation

In Case 1 the tumor became definitely smaller but seven years later rap dly merceased in sue. The Case 2 there was no cha ge except a later increase in the sie of the growth due to a t o months pregnancy. In Case 3 the tumor appeared to direase under the rad othe app but in reality did not change.

In Case 1 the hamorrhage was arrested but re appeared when the tumor became larger. In Case 2 to the menses continued and the treatment do not p event the occurrence of pregnancy. In Case 3 the treatment merely d musshed the hamorrhage 3 the treatment merely d musshed the hamorrhage 3

In two cases the cellular tissue was found at operation to be hard and avascular and there were other changes rendering surg ry difficult. In one case the e was a radiodermatitis.

Patel bel eves that such results should be reported because of the exaggerated claims made in favor of rad otherapy for the treatment of uter ne fibromate. W. A. BEE. AN

Goullioud Fifteen Cases of P egnancy Foll wing Abd minal Myomectomy (Q z sd g p è 1 myom t m bd m a l) Gy é t b s a s ir 268

The author s statistics and those of other gypecod ogists on the incidence of pregnancy after my ome tomy ar very encouraging. Benoti Gonin s statistics how five pregnancies in twenty six cases in which myomectomy as performed on a m rised woman in the child bearing age. Arch ul reported that of seventy five married women subjected to myomec tomy fifteen became pregnant.

In the as hor a opinion myomectomy does not work spose to any se suce solvetic cal compleat on While miscarriage 1 not an uncomm a sequest cose time tiggature of the partiest abortion prior to the operation. In a series of muet, before a ported in the literature pre-ganacy occurred 138 times aft r myomectomy. There were too full t middle times the premair r delivered and leventy above many 1 ceptable presentations three breech many 1 ceptable presentations three breech mentally as ceptable presentations three breech mentally as ceptable presentations three breech

author was able to find in the literature only three cases of rupture of the uterus following myomec tomy one of these was fatal

On the basis of the literature and fifteen cases of pregnancy following myomectom reported in this article the author comes to the followin conclu ions In cases of fibroids in women in the child

bearing age myomectomy if possible is preferable to hysterectomy or radium therapy

2 If enucleation of the growth 1 found at opera t on to be impossible and if the woman is still in the child bearing age it is be t to close the abdomen and give guarded doses of rad um or the \ rays

3 The possibility of mil gnant change in a fibroid mu t be con idered before a my omectomy is

done

4 I remant women i ho have been subjected to myomectomy should be delivered in a hospital TAMES V RICCI VI D

Norr's C C and Vott M E Carcinoma of the Body of the Uterus (with the R port of 115 Ca es) im J Ob 1 & C)

Among 12 514 gy necological car es observed during the last twenty three years at the University Hospi tal Philadelphia there have been 11, cases of fundal carcinoma During a s milar period 346 cases of cervical carcinoma were found among 756 case of carcinoma of the genital tract Carcinoma of the fundus constituted about 1 2 per cent of all cancers of the genital tract and about 25 per cent of all uterin cancers

Carcinoma of the body of the uteru is less fre quent than cancer of the cervis. The may be due to the fact that chronic cervicitis is a common lesion whereas true chronic corporeal endometritis is tela tively infrequent Carcinoma of the fundus 1 a dis ase of d anced life. In the sen s of cases retiewed more than I per cent of the patient Were 51 years of age or older Childhi th play little part in the et ology of this neopla m T enty st per

cent of the women were unmarried The most important signs ar hemorrhage and discha ge In 81 per cent of the cas s hamorrhage was the first sign Pain cach via a d loss of eight gener lly ind ateanadvanced and i one able tumor Only 25 per cent of the wom a sought treatment in the earl stage and only 34 8 per cent of those treated three years ag are all e. Ab ence of pain and on recogn tion of the sign ficance of irregular bleedin account to the m jointy of advanced cases The histologic examinati n of cu ettings offe almost certain in ans of diagno.

even in ea ly Th Clark test which consists in the pas sage of a sterile sound 1 of gr at pract cal alue th ence of bleeding following the t st goes a g eat way toward excluding carcinoma Th test 1 an offic procedure and its more gener ladopt on will esult in the ec gmt on of m ny early cases In the ser es of cases r n wed the clin cal di gnosis was cor ect nd positive n 57 per cent. In 23 per cent the cane r was suspected in 10 per cent unsuspected

In 75 per cent of unsuspected cases the symptoms caused by the cancer were masked by those produced by pre existing myomata As often happens the cancer was associated with a myoma in 20 8 per cent of the cases

The prognosis depend chiefly on the integrity of the myometrium Of the patient who had had symp toms for six months or less 56 5 per cent were alive at the end of three years. Of those with symptoms for from seven to twelve months 31 2 per cent sur vived and of those with symptoms for more than

one year only 17 8 per cent survived

The treatment of choice 1 panhysterectomy and hilateral salmingo-cophorectomy Postoperative ir radiations with radium or the deep \ ray are of d tinct value Radium irradiation is the greatest nalliative measure and prolongs life. Radium irra diation offers a hone of cure even in cases too ad vanced for operation. Hysterectomy gave a three year cure in 37 5 per cent of the cases whereas in a like series arradiation resulted in a three year cure in 45 per cent If the group treated by irradiation had been larger it would probably have been found that hysterectomy gave the better results

In the early cases hysterectomy gave a three year cure in 42 per cent The mortality of hysterectomy was 7 per cent and that of radium treatment 6 per The total mortality from all causes in the entire series of 112 cases was 56 p r cent. The total number of three year cures vas eighty six 348 per cent of these patients are non alive

Carcinoma of the fundus must be con idered a relatively malignant form of cancer. In the author's opin on the belief that from 60 to 75 per cent of the cures are permanent is fallacious

Preliminary curettage plays little part in the dissemination of the condition and its value as a disgnostic procedure in the early stages far out; eighs its disad antages. Without diagnostic curettings the m jority of early cases would be overlooked and many normal uten would be sacrifi ed

Carcinomatous degeneration occurred in less than 3 per cent of the endometrial polyp All of the patients are alive. In these cases the important factors are the condition of the pedicle of the tumor and the presence or absence of an inplantation dt worg EDWARD L CORNELL M D

Cile G W Ca cinoma of th Uterus 1m T

Obite G. 9 4 523

Obite G. 104 Fadiation Therapy of Cancer of the Utern A J Obst G. (1024 v) 530

J ne T E. The Role of Rad um in the T eatm at the Utern A Am J Obit of the Constant of the C of Carc nom of th Uterus Am J Ob t & 19 4 541

CRILE In sixty of the 220 cases of carcinoma of the cervix regarding which the author has sufficient data for study a radical operation was performed The operabil ty in this series was therefore 27 3 per cent Of ninety-one cases of carcinoma of the fundus a radical operation was p rformed on seventy making an operability of 76 9 per cent

In these series of cases the incidence of both car cinoma of the cervix and carcinoma of the fundus was highest between the ages of 50 and 60 years Six of the women with cancer of the cervix were unmarried Of the women with carcinoma of the fundus seventy eight were marned and ten were unmarried

The higher incidence of carcinoma of the uterus in married women and especially in those who have borne child en indicates that laceration and irrita tions of the cervix are to be considered as primary predisposing causes Squamous cell carcinoma pre dominates among caremomata of the cervix and adenocarcinoma among carcinomata of the fundus

In any case of abnormality of uterine function in the childbearing period meticulous care should be exercised to determine the cause. In a case of abnormal discharge after the menopause immediate vagual hysterectomy should be done followed by the application of radium Radium and Vrav therapy should be used in the treatment of all cases of carcinoma of the cervix final judgment as to the abandonment of surgery in these cases being re served. Certain apparently inoperable cases of car cinoma of the fundus may become operable after a period of rest and the application of proper thera peutic measures

Extensive correlation of the experience of numer ous observers is essential for the establishment of a correct basis of judgment as to the relative merita of surgery radium and the X ray in the treatment of carcinoma of the fundus or cervix of the uterus

PORTMANN In view of the present status of our knowledge regarding the relative limitations of surgery radium and the \ ray the proper treat ment of malionant disease consists not in the us of any one of these agencies but rather in the em ployment of certain combinations of methods according to the indications in the particular c se Most surgeons now concede that radium therapy to the preferred method of attacking cervical carcinoma Even the small group of very early cases that may be successfully treated by operation are as effectively and more easily treated with radium. During the practically abandoned the surgical treatment of cervical carcinoma. With deep \ ray therapy the have a weapon which is as useful as radium and broader in its apply ation However as a result of ex periments Portmann concludes that by means of the ray alone it is impossible to obtain sufficient in tensities of radiation to carry a therapeutic duse into the most deeply situated lesions such as a car cinoma of the uterus

The treatment of carcinoma of the cervix will be come entirely confined to rad ation therapy Radium has already proved its value. In a small group of cases of early involvement surgery and radium are equally successful In a second group with vaginal involvement the operative procedure becomes more complicated and hazardous and although it gives good results rad um g ves equally good or better

results. A third group of cases in which there i some involvement of the parametrium and a fourth in which the disease is widespread the surgeon classifies as inoperable. These two groups include about 62 per cent of all cases of carcinoma of the uterus In cases of this type radium therapy has proved to he no less successful than surgery and as the technique of radium application is being im proved prog essively better results are being e ported It is part culvily in the treatment of cares of Groups 3 and 4 that intensive treatment with radium and \ ray proves better than surgery Experience thus far leads the author to conclude that the comb nation of ridium and short wave I rays gives greater benefit than previous thera peutic methods

The cases in which radiation has been least successful are those in which it was preceded by opera If cauterization is done in cases of cervical carcinoma it should be followed by irradiation immediately Except for diagnostic purposes ou rettage and excision of usage should by the done unless radiation is administered at the same time The most important contra indicat on to radiate n therapy is inflammation

Jo Es In inoperable cases radium therapy yields excellent results. Of nine pat ents treated more than three) ears ago four (45 per cent) are now apparently well.

In a second group of cas s-those treated with both surgery and rad um-the results were very poor The combined treatment has ther fore been abandoned

A third group of cases—in which both rad um and deep Y ray therapy were used—shows the best results although since this combin d method has been employed for less than a year the e a e asy t no statistics upon which to base a onclus on regard ing three or ht y ar cures

The method of applying radium changes from time to time with increasing experience and in different cases It is impossible to treat all cases at ke In some it is best to use needles while in others it is lbeen s u o eld seodur Needles should be em ployed wh never possible because they go e the most homogeneous radiation

Seventy fiv milligrams of radium screened with s mm of brass are placed in the cervit 50 mgm against the cervix and 75 mgm (in nine needles) inserted at various points in the cervix. The treat ment is continued for from twel e to sixteen hours At the end of from three to four weeks 25 mgm of rad um screened with 1 mm of brass are placed against the cervix for f om twelve to fift en hours Therefore a total dosage of from 4 000 to 4 808 mgm has as given After the second treatment the patient is discha ged but is asked to come in again for on 327 alson thee mouths later

On account of the excell at results of the surgical treatment of carcinoma of the fundus of the uterus Jones has not yet advocated rad at on for this condition Ho ever during the past year he has seen a recurrence in the upper end of the vagina six months after a complete hysterectomy in three cases and all of these patients died less than a year after the operation EDWARD L. CONVELL M.D.

Clark J G and Block F B Relati e Values of Itradiation and Radical Hysterectomy for Cancer of the Cervix 4m J Obst & Gym c 194 V 543

The authors have compiled the recent statistics

from ten surgical clinics

The operability ranges from 15,7 to , 65 per cent but the Irequirily repeated statement that too operability means a high percentage of cures is you always true. In the entire sense the primary mortal its ranged from 5 to 56 per cent. In 1530 cases subjected to an abdomical operation a the year cure was obtained in 665 (36 5 per cent). The per centage of cure is slightly, lupher and the primary mortality is slightly lower than Janewa (ound them to be a few years are)

While radium is widely used and a great deal has been written on the subject there are few reports of five year cures because the treatment is still new An analysis of cases tecorded in the literature shows thit in general ridium effects a cure in 43

per cent of cases of cervical cancer whereas radical operat on gives a cure in only 39 5 per cent. More over in the 9 per cent of inoperable cases death would have occurred in ler any other treatment.

In the (went), two operable cases in the authors series a circu was obtained in 72 per cent. Of the patients who were inoperable 67 per cent were alieve and free from evident recurrence at the end of five years. Of the total of 14 patients only 15 per cent of whom were operable, no a per cent when were operable, no a per cent when the per cent of whom were operable, no a per cent when or five years the authors have all and irradiated under gas anaschesia.

Radium is a palliative reme's of inestimable value in the great majority of hopeless surgical cases and of cutative value in a small pertentage. While it compares most favorably with the radical abdom inal op ration the authors do not take issue with the skillful spenils; two adheres to the radical viewpo nt provided the supplements his operation with postoperative irradiati.

EDWARD L CORNELL VI D

Heyman H V J The Technique and Results in the Treatment of Ca cin ma of the Uterin Cervix at "Radiumhemm t Stockholm J Obst & G) a Bri Emp 9 4 xxx

Of the auty is casts treated in 1014 there were orly there in which the symptoms did not enturely disappe of only polliation being obtained. In two thinds of these cases the discretion was completely perfectly the complet

improvement lasted for about half a year in many cases for more than a year and in some cases for two years

In the past ten years the technique has been per fected new apparatus has be no obtained a control dent intra uterine and vagmal application of radium has been consistently carried out and cautious attempts have been made to concentrate the treat ment further. However the principles inaugurated by Forsell are still dominant.

For genecological purposes the author employs Dominici tubes only. All of the tubes contain radium sulphate. The tube walls are made of gold of gold and silver or of platinum and silver. The thickness

and silver or of platinum and silver. The thick of the metal is equivalent to 1 mm of lead.

The applicators intended for ustra attrine was are cylindrical. Wrapped with rubber they are introduced into the uterus sterile. For vaginal application, cylindrical or flat applicators are generallyimployed. The cylindrical applicators are used two and two together while one flat applicator is generally used alone.

The choice of cylindineal or flat applications de prods upon the appearance of the temor surface Cylindineal applicators are most suitable when the temor is crater shaped. Flat applicators are most convenent in disk shaped tumors. Large caulifoner grow this sometimes demand a special arrangement such as several applicators or radium packs of sheet lead. Anattempt is made to cover the vaginal surface of the tumor with radium as accurately as possible

The typical treatment in a case of carcinoma of the cervix is as follows

Three treatments are given—the second one week after the first and the third three weeks after the second. At each treatment the radium is used in the same amount and for the same length of time as follows.

Quantity of radium. In the uterus 337 or 401 mgm in the vaging about o mgm Time of treat ment twenty two hours equivalent to from 741 to 832 mgm his in the uterus and 1 too mgm his in the vagina. Filter equivalent to 3 mm of lead

The total treatment is therefore from 2 220 to 2 640 mgm hrs in the uterus and about 4 500 mgm

hrs in the vagina

Prot to the application of the radium a purgative signer Before examination of the grow hand the semonal of a portion of it for microscopic examination 1 cgm of morphine is administered. The summa and the tumor surface are then dearwafe care to the summa and the tumor turface are then dearwafe care to the summa surface are the summa and exocolless too. As long as the tumor above a tendersy to be all to firther treatment is given.

If a tumor begins to grow again during the second six months after a fresh careful treatment may be tried though preferably this is not dore until about a vera siter the first and then only one application is made with a small dose

is a tule a tumor which has been steadily im proving for a year following the treatment is clini

Diet must be cons dered a factor in sterility but is probably of little importance in the cases seen in private practice

Of fifty five patients with uncomplicated dysnareunia 40 per cent subsequently conceived. The treatment of these cases consisted in dilatation of the hymen and vagina and the use of tampons and douches

Of fifty seven patients with retroversion of the uterus 25 per cent later became pregnant. However no case in which the retrodisplaced uterus was adherent was treated successfully. This fact indicates that not the displacement but the inflamma tory lesion involving the tubes is the chief cause of the sterility Some of the cases of displacement of the uterus were treated by suspension operations and some by the use of pessaries Four patients with uterine displacement became pregn nt after cervical dilatation

Tubal infection was found in 82 per cent of the cases. In the majority of these it was gonorrhoral and associated with cervicitis and displacement In three of twelve cases in which the tubal adhesions were freed and salpingostomy was performed

pregnancy occurred subsequently patients who were unwilling to undergo operat on and were therefore given non-operative treatment none concerned

Of twenty seven women with fibroids eleven were subjected to myomectomy Four of the latter became pregnant subsequently

Of two patients subjected to artificial insemination

one became pregnant

There were seventy three patients with uncomplicated cervicitis. The fact that eighteen I them conceived after treatment indicates that cervical discharges are a definite factor in sterility eighty three women with complicated cervicitis twenty subsequently conceived. In the authors on nion, the most effective non-operative treatment of cervicitis is radial cauterization

The Rubin test was used in thirty five cases and in four of these the findings were checked by opera tion. This test should be employed to det rmine the results of salpingostomy The authors agree with Ward and Aldridge that it is of great value in diagnosis but as yet has not proved of aid in treat ROSCOE TERSON M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

The Blood Chemistry During Stander II I Pregnancy B II J h Hopk s H sp B It 024 XXX 21

The blood of the pormal non pregnant woman contains approximately 32 mgm of non protein nitrogen 18 5 mgm of ures nitrogen and 3 3 mgm of uric acid per 100 c cm. The carbon dioxide com bining power of the blood plasma is about 52 volumes ner cent

In normal pregnancy the non protein nitrogen and the urea nitrogen content are less than in the non pregnant state the averages being 28 and 12 48 mgm per 100 c cm respectively The uric acid is about the same a in the non pregnant state while the carbon-dioxide combining power drops from 52 to 45 volumes per cent The ratio of urea nitrogen to non protein nitrogen is also de reased being about 44 5 to 57

In severe cases of neurotic vomiting the non protein nitrogen and uric acid values are increased but return to within normal limits as the patient im proves

In nephritic toxemia the non-protein nitrogen tends to increase to an extent fairly proportional to the severity of the condition. In the definitely preeclamptic type of toxemia this tendency is less striking In nephritis the ra io of urea ni rogen to non protein nitrogen is definitely increased while in the pre-eclamptic type it is either normal or decreased

In true eclampsia fairly normal values are found for the non protein nitrogen and the carbon-d oxide combining power and the ratio of urea nitrogen to non protein nitrogen is a milar to that found in preeclamptic toxamia

In all three types of tovæmua-nephratic preeclampt c and eclamptic-the unc acid content of the blood is definitely elevated

EDWARD L CORTELL M D

Pauc t and Paquet Fibromata Complicating Pregnancy Casarean Section Followed by Hyster ctomy in a Patient with Basedow s Dis ease (F bromes po a et go e esa ne o dhy if ect m haun femme ti i ted) mld de B sed w) Bll Soc d bi id gy & d Pa 0 4

The patient was a noman 33 years old who was pr gnant for the second time. Her first pregnancy which occu red in 1921 was interrupted in the s venth month. The delivery and puerperium were normal A diagnosis of Ba edows dis ase was made on the b sis of exophthalmos moderate goite tachyca dia and trembling of the han is which was

not modified by voluntary movements. These symp toms began after the first delivery

From January to October 1923 weekly applica tions of the A ray were made to the enlarged thy rord but the gotter did not change materially during this period. The last menstrual period occurred in February 1023 The pregnancy was normal up to the fifth month At this time following retention of urine the presence of a fibroma was discovered on examination On November 15 the membranes ruptured The enlargement of the uterus and the history and cated that the pregnancy was at term On vaginal examination a hard voluminous im movable mass was felt filling the entire anterior cul de sac Behind this mass and very high in the vaging the cervix was felt directed toward the sacral cavity. The fetal head could not be palpated. On abdominal palnation several fibromata of moderate size were felt on the anterior surface of the uterus

Under chloroform anasthesia a casarean section was performed with the extraction of a female child weighing 2 800 kgm A subtotal hysterectomy was then done. The patient made an uneventful recovery

The authors believe this case is of interest because of the number of complications The exophthalmic gotter was entirely independent of the pregnancy as it began more than a year after the first delivery and during the second pregnancy remained practically unchanged. In the second pregnancy there was no comiting albuminums or placental hamorrhage SALVATORE DI PALMA M D

Reeb Peritonitis of Appendiceal Origin and Preg naucy at the Seventh Month (Pé it te dong e ppe d culaire t gros es e du VII m s) B II Son d but td gynte d Pa 10 4 1 1 24

The patient a primipara in the seventh month of pregnancy was operated upon the third day after the onset of acute append citis The appendix was found gangrenous and perforated and a generalized peritonitis was well established Labor occurred the next day After phiebitis and pulmonary infarction the patient recovered

The occurrence of acute appendicitis with perfora tion and peritonitis in association vith pregnancy is very rare At a school for midt ives the case reported was the first case in 5 000 deliveries This rarity is surprising as pregnan'y aggra ates intestinal sta is which is assumed to be one of the ch ef predisposing causes of appendiciti The prognosis of the appendi citis is rendered less lavorable by pregnancy and particularly by pregnancy at an advanced stage as the diagnosis is made difficult the operative diffi culties are a creased and if labor occurs soon after the operation the walling-off process is disturbed

Lemlerre A and Ri all r F: Lolibacillamia of Pregnancy without Pyel n phritis (Col b. ? Reil & but 4 following tr.) E 1 tentes See mit d kip d ? 194 5 x st 45;

The authors report the case of a wing somas for months pregnant who as Ifm! levels pel an infection which lasted realoust enders all card infection which lasted realoust enders all card reported attacks of force that as I between a laste. The temperature range from a ground card to the temperature range from a side and error Back relutions showed the tresone of a card to trice as well large running of the hard granular cylin let and language and a large samular cylin let and large card was a standard standard from the following the large running from the colors as the call of the large was granular cylin let and large samular cylin let and large card was a standard from the colors as the call of the large was a final to the colors as the call of the large was the large

The point of interest in the case is that Tespite the interfer in a figure of the Head infection there was no important box action in the kilner. The fact that the lacteria ferred the kilney battler was demonstrated by the a pear resolution in the content of the winder.

WARTE Crubett O Mr Fi mpela fait a fil fodical

When I are expatible lood species is at lacel I, the time treat tube a new and more rous full is formed. It is a more that a similar con lition would occur in the bod upon the passes of against more from the fact to the rish to bod interam. A vivous till i lastice the lised in the lacel in

I apecuments on the tyjing of blood for micases of normal and also remain regulance also to all to deministrate that fat ragglutination may be at fault in true cellmpsia, but not in a plantic towns as a period

pregnance liere is a gro p of toxxwize with a low blood vi co ity compatible blood group ; g an i appro ; matels the same blest for inches as true eclampsis These cases may at w m suppression fun e in fact in some of th m th re ma he c ast! rall polyuria bef re an I after d liver. The ca ts and a small or large ame nt fall umin may or may not he present before the ons t I con ui i n th onet efe nulin the affunin nic sta in the urine increase c neiderally with each suc ex inc e nvulu n Cli ically these ares are diffcult to differentiate from cases of tru e I misia unles the visco its and the blood type between the moth r and child or the bust nlar ascertained Th probably cases of nephritic to am a

In fit en cl ni lly diagnosed cases of ectamps a er pre-ectampsia the flood group ing of mother and child was incompatible. In its cases of pregnan v towardia with c n ulsions and in 19hty three es of normal pregnancy the blood grouping of the mother a d her child w a compatible. The list group of the off print is letermined by the lists of hered; Incompant him between the material and letal blood groups occurs only in limited blood groups occurs and in the cases of cornal pregnancy examend the blood grouping was such as to each be the jost little of intrared up.

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Windeper J C: Th T ami f Pregnancy with an healty i of 15% (asses of 14) mg in M J J 4 J 19 4 i g 1 2

The author states that the toxem as figreg rance test in 11 f from 18 to oper cent of the maternal mortal to in A stralia are over asing

I clamesta is do as ed on the base of to cales observed at the Rival Hospi at for Women in a period of seven and a half years. One hin ired and I ut of the women were triminary and fits four w re multipate. The treatment was char cter zed by its conservat in constitute u u li in m asures to stimulate el mi atun a f the afm ni trat on f morphine. When the cin ultions persisted vera tr re was used went to patents ere given one or more lose of the long in theteen case the er trone was not preceded by mornh n auth to or iri n rate ne should be used when the I lood pressure a raised a d the p lie rate is rap ! This i during the first six t in nto f ut fours when attempts are be g made t promote evacus tion berate ne arresta the censuls na by can ng a fall to the flead pres are and all ling the pulce A pulse rate o er So in! stes danger The d se of versit ne is 0 30 mgm followed by 0 4 mgm and it n it mois to 8 mgm r peated confing to requirem ats as a licated to the blend pressue a d pulse I had antage in the us of the drug ! arration in the respon e of the black p e sure

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4 The statistic revewed int to (1) that the cases of columpsia in what the con I ion

begin before labor are usually at an earler period of pregnance, than those in which the convulsions begin during or after-labor (c) that the infantiementality is grater to the case in which the crushance begin between the labor (c) that the infantiementality is the chief cause of the high infantie mortality is technique (i) that the blood pressure is raised in practically all that the blood pressure is raised in practically as and case of endamps and exercitionally high pressure are found in case vith a pre ensuing chrone special season of the control of

LABOR AND ITS COMPLICATIONS

Davis A B Extraperstoneal Cassarean Section (Gastro Elytrotomy) in Presumably Infected and Mismanaged Cases of Polonged Labor 1 J Obl & G & 19 4 3 3

The sooner it; generally realized by the latty and the memb roof the medical frollession that reproduction; a potentially pathological process and in 10 per cent of the cases an actually path logical process the sooner childrith will be remo ed from the post on it no hold; in America as pert to tubercu loss the cose of the greatest number of deaths

Every pregnant wom a should be given proper obsterical ear and instruction soon after conception and throughout greation 1 lor and the purpersion until even thing possible has been done to restore her to her normal act; titles of life in good con litton meets per cent of pregnant women should be under careful observation. Except for a sex simple pacutions and instructions the should be It alone as long as they a e.p. gre sing favorably, but it should 1 ay she bowne in much that some from this large class may change gradu lly or abruptly over into the abspromal class.

Emergence obstetrical ca s should disappear. These times as the morbibith and mortality of obstet treal reco ds. So long as the occur the vell erupped materinty, hospital should receive them. With print attin it some of the cenningly hopeles cas swill re. The eshould be some way of the changing the cit is useful field to those results are repe ted poor "buch no one should be senour agod to dr. of this en tiges along less did grows lines. W. n often see mor b Johangb charaft but

e will accomple in more and obtain bett results to looking ah ad. The public should be taught to be me recruited of betterical r sults and or to be me recruited of betterical r sults and or to act it injuries the mothe and child or the death of ne r both a unav idable. Extraperion all as r an as rection unlift in a lift that sulbour as r an action to the class real rear a factor would be the author the class real rear an as ect on would be say d but r.

The twenty-eight cases reported ere septic to a greate t less degree. In all there as a high tem perature after operation. In no c s was it possible

to secure primary union of the abdominal wound Two shoved only an oily d scharge from two or three stitch holes which lasted for a day or two In twenty one cases part or the entire length of the sound separated down to the aponeurosis In four cases the wound broke down to its entire depth with considerable sloughing. Two patients died early before the repair process progres ed very far The wound heal dreadily and in all cases except two or three in which there was mild tendern ss dos n the inner part of the right thigh suggesting a slight phlebitis the infection remained local. There was no evidence that the uterus was infected or that its ound failed to unite by primary union. In a few cases there must have been a very localized peritonitis With the exception of one case there was never any suggestion that the bladder was injured or became infected later. In one case with severe sloughing there was a vesical fistula for a short time but this closed spontaneou ly

Notwithstanding the previous condution of the patients and the fact that they were subjected to a long and difficult operation their early postoperative condition was remarkably good. Nomiting was never distressing and abdominal distention was almost entirely absent.

One of the principal points of interest in these cases was that the patients included sixteen primipara one para ii fi e paræ iii one para iv one para v one para vi two paræ vu and one para viii. The ages ranged from 17 to 41 years Twelve of these patients were entirel in the care of the Lying in Ho tital The remaining sixteen had been under the care of physi ians elsewhere for an unknown number of hours. Of the two mothers who died one was a para viii 41 years of age who had been under the care of an outside physician and a midwife Three of her chi'dren are living. Her first child was stillbo n and delivered with instruments. The others were also delivere I with difficulty. The second was a small child the third a large child and the fourth a child of medium size The patient had had also three abortions in the third month of pregnancy The child born by the labor under consideration weighed 4 160 gm and lived. The mother died on the second day from general pentonitis In the peritoneal cavity there was serosanguineous fluid which on culture showed hamolytic strepto coces. This woman had a contracted pelvis and reported that all of the fiving children had been in jured by the stretching of the brachial plexus

The other pat ent who died was a pairs 1 x y seas old who had had outside medicial attendance for an anknown number of hours before her admission to anknown number of hours before her admission. Of the hospital X forceps delic 117 bad been attempted. The patient gave a history of put umona three vesks ledroe labor Her child which vesighed a 200 events before labor Her child which vesighed a 200 even should be a substantial to a

In all of the tweety eight cases if it it is the heart was he and just be if no operation was begun. The eight less were still not. In these cases there was marked to contraction of the uterus and if all it trees was in it and it is the escape of preconcernal a varying it all heart less. One of the stillion interests was the case of the contraction of t

and yes ni 11 to face.

Intilly 1, 1 One hill tool after four and a half is a and an ther on the ni teeth last fer were entired yet purpose. The most not fit it tools when all our 1 to teeth and a four to the tools of the hill t

for if ree and a half days under outsid care. The child weighed 3,400 gm. It died six hours after felivers.

Size of the soom in have come unfer the authors care in a subsequent pregnancy. One in the third month w' in assured that she was pregnant defaired that the rubland demanded an abortion Nothing furth? I have been learned regarding her first continued to term. One had an amall child. The four order to rest the result of the first continued to order to rest the result of the first continued to the first continued to the first continued and operation was carefully examined in a heavy humanuall, with one hand through the care an opening in the uteriar. If a say any raising for it is well the uteriar wall had choosed and for first a will like uteriar wall had choosed and for first a will like uteriar wall had choosed and for first a will like uteriar wall had choosed and for first a shelpon the were in the night-ordered the significant way to be sufficiently as the statement of the statement was the statement of the statement was the statement of the statement of the statement was the statement of t

LORSE L. CH TIL, MD

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Deucher G W Changes in the Adrenal Corter in Peritonitis and Sepsis (let end tu ged det le b nn re rad be Pe to tis and Sepsis) Irch f Il Ch 1023 CRT 578

In tone and bacterul tujutes of the body severe changes frequently occur in the adrenal cortex Pte anount of hood in diminished in solated lavers and the cholestern content is reduced proportionally. The author first examined ten normal adrenal glands then studied the deviations from the normal in fitty, cases of peritorities and seguis and finally controlled his findings by experiments on guinca pigs.

In the normal suprarenal cortex which is always abundantly supplied with fat the lipoid is found in the parenchymatous cells of the glomerular and reticular tissue and mainly in small droplets Coars er droplets are found mixed in the fascicular tissue In the sections the fatty bod es crystallize abundant In peritonitis and sepsis a focal d appearance of the broad o curs at first in the glomerular and reticular tissue there I also a decrease in the size of the droplets with simultaneous loss of the crys tallizing power of the lipoids. In addition hollow drop formation vacuolization and honeycombed tellular degeneration are found Involvement of the vascular supply is shown by ordema and hy peræmia Extravasation and infiltration are rare These changes mentioned are more rapid and more marked in peritonitis than in sepsis | LEETER (Z)

Sweet J E Som Theoretical Ap cts of the Problem of Anuria A# 116 M J 1924 xx u 4 S

In the author's opinion there is a tendency to deloplaboratory statisticans who forget the patient Sweet di idea anuma into three types (1) the pretend due to disturbance of some mechanism before the bulery is reached (1) the renal due to a condition with in the kindry tited and (3) the pot trenal too with in the kindry tited and (3) the pot trenal too with the kindry tited and (3) the pot trenal for instance by hysteria and the use of ureteral catheters he states that the p tuntary gland is doubt less the central coptiol station of water balance. Another factor with cons derable influence on kid ney fun iton is det.

One type of renal anuria is that due to be chlor de of mercury poisoning Postrenal anurias include the postoperative an

ursas and those due to cal 'uli

The ch ef problem in cases of anuria is the nature of the lethal factor. The author states that it is not water saits or urea but an unknown toxic substance. The sequel of anuria is the presence of

urinary constituents in the blood. The anuria is essential or specific when normal urine i excreted. The toxin which kills accumulates in the blood. Beylaus, F. Roller, M.D.

Scholl A J and Judd E S A Review of Cases of Hydronephrosis and Pyonephrosis Si g Cl

scholl and Judd report a series of cases of hydronephrous and pynephrous from the Vajo Clinic.
There were 202 cases of hydronephrosis. In 4,1,
the kidney was removed and in thirty nine a plastic
operation was performed. Simple extraperitional
lumbar nephrectioniny was performed in 436 cases
subcap ular nephrectioniny in thirty and transperitional nephrectioniny in the transperitional operations. In susteen cases a complete nephro uneterectiony was performed
in the complete republic operations. In susteen cases a complete nephro uneterectiony was performed
underfectioniny was carried out through two incisions
a posterolateral incision to free the lower uneteranterior for retrus incision to free the lower uneter.

antenor low rectus incision to free the lower ureter.

The plastic operations on the renal pelvis were as a rule unsatisfactor. In eleven of the thirty nine cases a secondary nephrectom vas n cessary.

Five (r per cent) of the patients who had had a pri mary nephrectomy died following operation Complete postoperative data were obtainable in 403 of the remaining cases Three hundred and eighty four (oc per cent) of the patients are still living thirty seven of them from ten to fift en years 118 from ave to ten years 140 from two to five years and eighty one year after the operation. In seven of the nineteen fatal ca es death occurred during the first year in eight from two to fi e years after the opera tion and in four from seven to ten years after the operation Fourteen of the 384 patients still living have an infection in the rema ningkidney thirty one complain of renal pain and discomfort. Only three have had another operation one for the removal of a ureteral stone and to o for the removal of a renal stone all of the operations were performed on the oppos te side. The remaining 309 patients whose data are complete are in normal health

Four bund ed and seventy four patients with posciphors were operated on In 471 cases the kidney was removed in three nephrotony was per formed and draugge established Lumbar estra peritoreal nephrectiony va a done in 486 cases. In the peritoreal nephrection, and in 114 subespublic peritoreal nephrections and in 114 subespublic peritorial peritorial nephrocephrate peritorial peritori

sous procedure in the presence of widespread infection than in cases of simple hydronephrosis

Adhesions from previous operations and peritenal infection are common in tases of pyonephrosis The peritoneal cavity was unavoidably opened in to enty three cases in two fatal peritonitis resulted on the tenth and t velith day after operation re spectively A subcapsular nephrectomy was per formed in 114 cases. I tinephritic infection was common and as the capsule was often thickened and adherent to the surrounding structures it was imi ossible to find the extracapsular line of cleavage The kidney vas generally located in the center of the mass of protective adhesions, and in most cases enucleated readily from its fil rous capsule. One of the 114 patients died following the operati n

I transperitoneal operation was performed in six cases Twelve (2 5 per cent) of the nationts with primary nephrectomy for pyonephrosis died follow

ing operation

Complete postoperative data were obtainable for 388 cases of n phrectomy and three cases of ne phrotomy To of the patients treated by nephrotomy and drainage are still alive one is in good general health but the other s opposite ki lnev is also diseased and this pre ents further operative procedures on the pyonephrotic kidney. In both cases the wounds are draining Nephrotomy was per formed on the third pitient as an emergency procedure the opposite kidney being extensi ely diseased Death occurred soon after the operation

Three hundred and thirty six (86 6 per cent) of 388 nephrectomized patients are alive. One h. ndred. and thirty three are living from fi e to twelve years 163 from t o to five years and forty one year after the operation. Five patients have persisting sinuses which have been training from two to five years and one patient has a hermin in the opera tive wound. Thirty four pati nts have had attacks of pain over the opposite kidney Nineteen have infection of the kidney and bladder and eighteen complain of frequency and d) suria In two cases stones the twere left at operation and hid runtured through the kidney were removed f om the perirenal tissues. In one case a ureteral stone which w s left in place caused a p inful persisting fistula removal of this stone was f llowed by a good r sult. In four cases an abscess formed in the incision and equi ed dramage, and in one case it was necessary to remove the renal cansule v h ch had been left following sub capsular nephrectomy. The sinus held after the second operat on

Hinman F and Moris n D M An E perimental Study of the Circul tory Changes in Hyd o n phro is A Preliminary Report Relating to the Unil bed kidney Inst need in the R b

In one series of rabbits the left ureter as exposed through the lumbar route and div ded as f r down as possible from the renal pelvis. In another series the left ureter was divided just above the bi dder through a mesial transferitoneal incision hydronephrotic changes in the two series were similar except that the higher obstruction favored a

more rapid development

With complete ureteral ob truction early pressure is tran mitted from the distending pelvis to the calyces surrounding the interlobar vessels which are also subjected to increasing pressure. At first the interl bar veins are chiefly affected and there is resulting hyperamia in the cortex corticis

The intrapelvic pressure gradually forces back the ampulla of the solitary pyramid and makes the arterie and venæ rectæ tortuous. As the medulla toward the renal poles is stretched the straight vessels are elongated and laterally complessed The pyramid then becomes compressed on its base ara not the renal cap ule thereby affecting the cortical parenchyma since the vessels which run pri marily in the same axis as the direction of pressure become shorten I and tortuous The interlobular vessels in the cortex are thin affected. The cortex cortici first becomes thinned and then obliterated by compression against the capsule. The interlobular vessels show marked tortuosity with obliteration of their peripheral glomeruli and a temporary incre s in the s ze of their proximal glomeruli

The interlobar trunks are then displaced and to gether with the arcuste vessels and their bra ches are str tched over a constantly dilating sac. As a result of pressure and stretching there is partial anamia of the cortical parenchyma which tend to favor relaxation The larger interlobar and arcuste vessel become more and more attenuated and I nethened whereas their finer ramifications (interlobular branches) pass from a stage of foreshorten

ing to complete obliteration

The Li liney thus becomes transformed into a thin walled sac o er and around which course atten ted and greatly Ingthened interlobar and arcuste trunks sole remnants of the previous renal ascula ĺ۵ A PARIT MD

P pin E and Amba d L Resection f the h re s of the kidney f r rephraigi and Small Hy dr nephroses J L 1 924 xt 337

In the present state of ou kno ledge we must assume that pain is transmitt don! by the cerebro sp nal nerves The kidney and is pel is re sup plied by the re liple us whi haccompan es the large essel of the ped cle penet ating the ren I s nus with them there are also fine nerve fil ments enter 1 g 1 th (1) the art les whi h penetrate the fatty (b ous capsule (2) an tery which enters bet ee the L in y and ad enal d (3) acc ssory (polar) essels The nerves follo v I sely the cour of the blood vessels a d form a ch pl xus round them The filament can be traced I to the por t where they enter the parenchyma a d foll w the blood The nerves vessels t their fin st ramifi ations within the kidney are usually nonmedullated but in the pel is and calyces the fiber are frequently medullated The gangl on c cells of the plexus ar

of the sympathetic type and there is no doubt that renal pain comes from the sympathetic fibers

Interesting results may be obtained from resection of the nerves in painful nephritides small by dro nephro es and nephralgias without a well-stab lished etiolog. The technique is the following

All of the fat around the kidney and ureter is removed with care to presence the perureteral vessels. The renal peckle is then exposed and the nerve trunks are solvited and severed with the arolf a head I ght and a sternliatble maganfying flass. The posteror aspect of the pedice is treated in the same naw. The artery and vein are completely stripped of all surrounding nerve filaments. I may of the renal vein requires lateral suture operation is completed by nephropesy.

Papn has performed the operation six times. Two crises were not benefited. The postoperative paid was more severe than that following ordinary, tadney operations even nephrectomy. Polyuma or of guina did not occur. Decapsulation and nephro pery were done in all cases. The method is apply cable only to hydronephrosis authout obstruction.

Person M Two Cases of E rly Tuberculosis of the kidney 11 h u g S 1d 19 4 1 1 5 5

According to the Ekchorn theory advanced in 1908 the surgeal tuberculos of the ladney which becaus is a rule within a papilla penetrates to the renal pelvis through a fit tall and finally infects the ent e renal pel is so of unacoular harmtogeau congia. Very few cases reported in the literature were seen at a sufficiently early stage to afford my pointies support for this theory but the author

reports tw such c ses The first case was that of a man 44 years of are who had been treated in a sanatorium during the spri g of 1022 At that time the urine contained ro albumn At the end of October 1922 complaint was made of difficulty in urinat in When the pa tient was admitt of to the hospital in December, 1022 the urine f om the left ureter showed pus cells and tubercle bacilly but that from the right uteter was normal On December o a nephrectomy was done on the left si te Sections of the specimen showed in one of the uppermost papillar a g axish vellow rounded area about the si e of a nea and a seri small ulceration on the surfa e of the adjacent papill. On micr scopic examination the rounded area was foun i to be a tube culous cavity opening into the kidney pelvis thr ugh a microscopic tistula. The ulc rated a ca was a superfic al tuberculous ulceration In th upp r portion of the pelvic mucous membrane th te were m croscop c early tube cles

The second ca e was that of a man aged 23 years On May 23 1024 the right epi ladymis was resected b cause of tubercut six "son thereafter the pair in complained of u mary frequency. Cystoscopic examination r ve I d a reddened area around the ortifice of the left ureter. The urine contained no demon

strable tubercle bacill but showed a moderate number of white and red blood cells in the normal proportions in which they are present in the blood On July 3 1933 a gunea pig test of the utine from the left kidney proved positive for tuberculosis Tests of the utine from the right kidney were presentive.

The patient was admitted to the hospital on August 3. At that time there were no utmary, complaints. The utine from both ludneys was clear but showed a positive reaction to the Hieller test. Wo tubertle bacilli were demonstrable but in the sediment of the utine from the left kidney a moderate number of white cells were found. On August 8. 1933 nephrectomy on the left side was performed. In one papillar in the upper pole of the kidney was a caseous cavity the size of a pea from which a fine fistula opened out into a cally. The rest of the upper portion of the pelvic mutous membrane showed solitary fresh subspecibal it ubercles absoned solitary fresh subspecibal tubercles with gant cells otherwise the mucous membrane was normal

Bumpus H C. Jr The Treatment of Pyelone phritis with Indwelling Ureteral Catheters Report of Two Cases J U ol 9 4 x 453

Experimental work has shown that pyelonephritis is usually of focal origin and that the colon bacillus appears as a secondary invader which often replaces the original infecting organism. The removal of foci has been restricted because of failure to obtain bril hant results either following removal in cases of irreparable pathological changes of after partial removal It is not generally appreciated that good results can be obtained only by the complete eradication of foci. It is a common experience to examine patients who have had absce sed teeth removed but who still retain infected tonsils. There fore all patients with pyelonephritis should be "dv.ed to have both abscessed and pulpless teeth and infected tonsils removed before local treatment is undertaken

In cases that have become chronic local treatment is based on the type of the disease. As a result of inflammatory changes dilatation occurs first in the minor calices then in the pelvis and later in the ureters This according to its degree either im pairs or completely prevents normal peristalsis and results in delayed and faulty drainage of the kidney The inflammatory exudate and infected urine tend to be retained. In the treatment an attempt : made to favor dramage by inserting two uteteral catheters up the ureter to the renal pelvis. The larger the catheter the more easily is the treatment carried on After both catheters have been inserted one is withdrawn to a point 2 or 3 cm lower in the pelvis The other is then attached to a reservoir containing lavage solution and placed several feet above the patient so that there will be sufficient pressure to produce a satisfactory flow The solution runs into the renal pelvis at a rate that will not cause pelvic

listention and escapes through a second catheter into a receptacle in the bed Lavage is continued for several hours each day and several liters of fluid are run through. The catheters may be left in place as long as they drain freely If there is a severe cystitis similar treatment is given the bladder the results are equally gratifying In one particularly severe obstinate case this type of continuous irriga tion was carried on for about two months with satisfactory ultimate results

Farman F: Some Types of Chronic Recurrent Pyelitis and Their Treatment Clifor a & II t M d 1024 XXII 203

Farman states that women are more subject to pyehtis than men and that congestion of the kidney rather than the type of the invading bacteria is the factor of chief importance in the production of renal infection. He claims that about 90 per cent of renal infections are caused by the colon bacillus and s

per cent by one of the pyogenic cocci In the female renal infection may appear at any age but there are certain periods of life in which the recurrent types are more ant to become activated For instance, pyelitis in young adult women occurs more commonly after marriage than before. Women near the menopause are particularly subject to urmary disturbances Congestion and infection of the kidney may result also from the trauma of repeated childbirth and the strain of heavy house hold work Elderly women are prone to the chronic

recurrent types of infection

Experimental and thinical tests have shown that the constant elimination of bacteria and toxic material brought to the kidney by the blood stream from distant sources of infection (teeth tonsils sinuses) finally results in irritation destruction and infection of the kidney itself

The author reports nothing new in regard to the

treatment of pyelitis A diet which puts the kidney at rest reduces the acidity of the body and keeps the urine neutral or alkaline is desirable such as the so-called basic nephritic diet advocated by Sansum In general the basic nephritic det consists chiefly of vege tables fruits and sugars. Meats eggs and cereals are excluded All foods which are essentially basic or neutral may be allowed Orange juice is very potent in rendering the urine rapidly alkaline One glass should be taken at each meal Contrary to popular impression orange and lemon juice are not acid but basic in nature. The author says that he has found the diet described of the greatest help in relieving the distressing urinary symptoms of an acute attack of pyelitis. With exceptions it should be continued until the inflammatory lesions of the kidney and pelvis have healed

The drugs most commonly employed are the citrates acetates and carbonates A combination of sod um bicarbonate and calcium carbonate in large doses is of value It is well to ascertain the degree of alkalimity of the urine frequently by deter

mining the hydrogen ion concentration or by the use of the ordinary litmus test Following subsidence of the acute symptoms of pyelitis the administration of alkalies may be dis

continued and hexamethylenamin given methylenamin should not be given for acute urinary

s) mptoms

A pyelitis which does not subs de readily under medical management or which tends to recur should be treated surgically 1e by direct kidney and bladder treatment and investigation and correction of the accessory causes of infection by pelvic layage repeated once or twice per week depending upon the clinical improvement and the findings of unnalysis

In the routine examination of women complaining of urmary symptoms the author always determines the presence or absence of residual urine Some times it is necessary to examine for residual urine several times as pervousness or sphingler spasm may prevent complete evacuation of the bladder while in the early stages of vesical relaxation it may be possible to empty the bladder completely by extra voluntary effort. In this type of case much can be done to prevent retention of time and ascending

infection Renal infection occurring secondary to gall blad der appendiceal or pelvic disease or tooth tonsil

or sinus infection will spontaneously disappear following surgical removal of the foci-

Before dismissing a case of pyclitis Farman in structs the patient in bladder hygiene Overexertion fatigue chilling and exposure to inclement weather should be avoided In many of Farman's cases the condition began after ocean bathing with sudden chilling of the body surface. A frequent cause of urmary disturbance is voluntary suppression of the desire to urinate. Women especially are prone to accustom themselves to over-distention of the bladder Louis Gross M D

Negley J C. Kidney and Ureteral Calculi C ! for a & West Med 1924 XXII 227

This article is based on twenty cases of stone in the ureter thirty seven cases of stone in the kidney one case of stone in the right kidney and right ureter and one case of stone in the left kidney and left There were two cases of stone in both ureter Lidneys

Ureteral stone was more frequent o the left than the right side and kidney stone more frequent on the right than the left side. In most of the cases the symptoms had been present for more than a year In the author s op n on operation is the method of choice in all cases showing derangement of the kid ney function The pat ents who e cases are reviewed averaged only twenty four days in the hospital a Manipulations for non relatively short time operat ve removal of stone if too often repeated do more harm than good but in every case at least three attempts should be made to remove the stone by non-ope ative procedures before resort is had to Louis Gross M.D. operation

Kretschmer H L. Kidney and Ureteral Stone Surgery C ! forma & H e ! Med 1924 xx1 143

Renal infections are relatively common in women and stone is not unusual. Mothey stone may occur in association with other pathology causing swint of the stone and the stone with a stone and the stone which renal stone was present with carrisona of the colon prostatic hypertrophy renal tuberculous and other conditions. He calls attention to the great value of a prontingen ray examination in all cases in which renal stone is suspected. And is given also by cystoscopy combined with catheterization of the ureters and the use of the shadowgraph catheter.

The operations of py elotomy and nephrolithotomy and their indications are discussed. As complications of nephrotomy are mentioned urinary and suppura

tive sinuses

Nephrectomy is less frequently done as a primary operation tod y than formerly. Lerisitent fi tula recurrence of stone persistent infection or second ary harmorrhage after nephrotomy or pyelotomy may necessitate removal of the kudney.

J S EISENSTAEDT M D

McClellan R H A Report of Two Carcinomata of the kidney with Origin in Papillom ta of the Renal Pel is J U l 0 4 x 461

In the first case the only outstanding sign was hematura Roentgenography failed to belp in the diagnosis Cystoscopy showed which side was mod ed but not the nature of the involvement. The phthalem output was very slightly subnormal although there was total suppression of c rection on the involved side and the kidneys were arterior selection.

Secretion most of the neoplasm was found in the dilated pelvis. The picture was that of as o called being papilloms of the pelvis except for an occa being papilloms of the pelvis except for an occa shad like the pelvis

In the second case there vas a kidney tumed mas with par and bernatura. Reentgenography ag in I led to show the posit in and type of the kid no, innolvement. In spite of considerable kidney in ol ement the phthal in excretion was normal Operation evested a polycysting gooth with a tendency toward p pilloma formation. Sx months after the operation there was no recurrence. The growth probably originated in the kidney pelves as a localifed beingin papilloma. Lots Viewwitt M D.

Gyt G and Rousset J The Forced Urete
(L eier fre) Jdu i med få 94 x 11
97

By the term forced ureter the authors mean the ureter which no longer offers any res stance to

reflux of the contents of the bladder to the kidney pelvis it is the condition which others have designat ed as permanent dilatation of the inferior orifice of the ureter—It was described in detail by Legueu and Papin in 1914 but because of the war little was written about it until within the past few years

Legueu and Papin believed that the dilatation might have a congenital origin but many acquired cases have been described Heitz Boyer recently

reported a case due to an old infection

Gayet and Rousset report a series of fourteen cases. The first two observed were very similar In each of these the condition could be tre-ed back to intense cystitus caused by irritating injections into the bladder.

The fact that Gavet and Rousse in found fourteen cases in their clinical service within a short period of time shows that permanent dilatation of the vesical

urethral ortice is common

In some of the fourteen cases the condution appeared to be congental while in others it was ac quired Generally there is a history of circ sof painful cystius with pollakurian sometimes of incontinence and always of spasmodic contractions of the vesicle muscle tending to force the urterial and urethral onfices. Injections of caustic substances into the confice and the confice of

The diagnosis which is easy 1 based upon the cystoscopic and cystoradiographic findings and the exchange of colored fluids between the bladder and

In unlateral cases which are usually congenital the best treatment appears to be nephreciomy if the gaping ureter has caused severe kidney infection. Nephrostomy is insufficient and leads to fistual. In bilateral cases or in unlateral cases in which the total reason of the bilader and renal pelvas by simple eviscal injections is beneficial but is only pullitative. Such treatment must be given with great care not cause infection. We apply that the property of

Smith C & Lesions of the Uret r with Special Reference to Obstruction and Infection A Factor in the Development of Certain Forms of Nephropathology S r G COb 1 1924 z vi 500

Obstruct on of the ureter with subsequent unnay stass and renal infection is due to (3) attention of the ureter (2) small caliber of the ureters (2) small caliber of the ureters (2) small caliber of the ureters (2) small caliber of the ureters (2) small caliber of the ureters (3) small caliber of the ureters (3) small caliber of uret

The author discusses the well known effect of un reheved obstruction and urges dilatation of the obstruction areas. The latter procedure is a prophylac tic measure and the best means of preventing the

development of a surgical condition of the Lilney The author's case reports show the frequency of hamaturia and hauria. Stone urinary tuberculosis and other conditions that may cause obstruction of the ureter are not discus ed

MALRICE MILLER M'D

BLADDER URFTIFRA AND PENIS

Sleard and Forestie Roentgenography of the Urethra with Lipiodol (A proposed I rath gr Thie 1 I retre prie i predol) Hill I mem Soc mid d hilp de Pr 9 4 35 at 316

The autho's report the tork of Legran ton the use of lipixiol in roentgenog Jphy of the urethra Ten cubic centimeter of to fize I oil are injected g ntly with a flass syringe under slight pressure and the toentgenogram then made at once I or th anteroposterior view the patient is placed in dorsal d cul stus and the rave are centered below the pubes in the me han line The roentgenogram is clear but presents a large shadow due to the urethral bulbar dilatation For the lateral new the patient is slightly inchned on the left side with the left thigh strong! fixed on the n has and the right thigh slightly hapetextended The \ fav incidence is oblique the nutral to g se ng in front of the interior surface of Scarpa triangle on the right side. The tube is inchned as degrees. The entire wrethral canal is se n eleath. The sort red oil passes easily into the hia i ler

The procedur is simple and moffensive. It is of value as a diagnostic m. asure as it shows the cal ber of the urethra and the level of the stricture UNLITER C BLEKEY W.D.

GENITAL ORGANS

Caulk J R The Value of the Cautery Punch Operation to Contracture of the Vesical Neck Ro ton 31 8 > 1 10 4 100

The auth r claims that the cautery I unch overa tion is as a pable of producing a cure as any of the onen methods and subjects the nationt to le a surg

real fazard and econom c loss Caulk considers all of the lesses obstructions as

contractures and divides them into those of the bar The laster be type and those of the collar type further subdivides into the following types s Sheht annular thekening around the internal

orifice which p ent flushing of the orifice and bt dder wall

2 Some hat more pronounced annular thicken ing which frequently forms shall we ciefts part cu larly in the upper segment

3 Much more pronounced nira est al bulgt g asso rated with the formation of elefts and lobules This is a borderline condition between in jor and minor surgery which requires the most car ful cistos on c differenti tion

4 Dense s I toses u ually termed true on tractur a the type whi h has proved difficult to overcome and apt to recur The associated spast ity and tensio may lead to an error in the diagnosis On rectal and cystoscopic examination many such contractions seem to requir open surgery thickening is due chiefly to ordems and inhammatory infiltration upon the scelerotic background Under drainage rest and relief of the tension the entire configuration becomes rap dly transformed

Caull his operated upon a number of pat ents with the different types of orifices who had been advised that local treatment would be sufficient or if the obstruction was marked that open ope ation was the only possible remedy. Two pat ents operated on with the cautery punch came from important clinics with suprapulate openings formed preparatory to prostatic enucleation Both were in such a crous con lition that the wee of stare bad not been carried

In the series of 150 cases reviewed a bar obstruction was found in 40 per cent a small collar obstruc tion in 34 per cent a tightly contracted neck in 15 per cent lateral lobule formation in 4 per cent and cancer in 7 per cent. Therefore the obstruction was of the collar type in almost be per cent. In the last few years Caulk has found that 50 per cent of obstructs as fall in this class and are amenable to minor procedures

In the examination the size of the prostate w s determined by rectal examination and by cysto copic exam nation of the ordice. The majority of the patients were between 60 and 75 years of ag but twenty three were under 50 years and eight were bet een so and go years. All were extremely poor surgical risks and the major"; we estill ring from pyclonephritis and rather se ere uremia Caulk is confident that if major surgery had been k ne in the e cases the operati e mortality would have been high. The cautery punch operation was follor el by no mortality and no reaction Y h n x was completed the patient was allowed to get up and dress. A retention catheter was placed when there was a large quantity of res dual urine requiring drainage and when ther was marked spasticity with retention of unite

The c uters punch operation is remarkably pain less. In cases operated upon with the afternating current there was no hamorrhage. Is a rule there was only a slight staining of the urin or a slight beginning or termin I bl e ling In the majority I the cases this crossed entirely in two days but a few patients had term nal staining for I om seven to forsteen days and a few others for as I ng as four weeks In to case was there extens to slough ng after the operation and in no inst nce was the procedur followed by the sightest incontinence Ab orption with reaction was rare. In only twelve case was there a rise in the temperature and in eight of there there had be n ch lis and fever from L'selonephrit > Epididymitis occu red in 8 per cent of the ca es but t as ac te in only two in tance

In 6043 per cent of the cases the operat on 428 fallo ed by improvement in the urinary stream

within a veek and in the remainder in from two to eight weeks. However several of the patients with the best re ults had considerable difficulty in urina tion frequency and irritation for as long as seven or et ht weeks. No instrumentation of the urethra was done for five weeks after the operation. The average patient was given urinary antiseptics watched carefully and told to drink water freely In cases of irritability the usual sedatives and heat were employed. If the urine was dirty and the arritability pronounced a mild injection of argyrol or collene was given through the urethra with a urethral syringe

In the cases of har obstruction, the average frequency of urination at night vas four before opera tion and one after operation. Before the operation all but t elve of the patients were obliged to get up at m ht Since the operation as per cent have not be nobliged to urinate at night whereas before the

operation their a grage frequency was three In the cases of collar obstructions and those with lobule the average frequency of urmation at night was four before operation and one after operation Sixty per cent of the nationts yere entirely cured of

n ght unnation

In the cases of a vere contractures the frequency of m ht un ation was six before operation and one after operation Before the operation all of the patients we e obliged to get up at night whereas after operation 40 per cent nere e tirely cured There were two recurrences one within six months and the other with n a year About o per cent of the patt ats has a rema ned entirely free of symptoms for from o e to four years

The residual urire before and after operation as as follows Bar obstruction before 402 after / 02 Collar obstruct ons before in oz after Et hts e ght per cent of the e two types of cases we e entirely cu ed Contractures before 5 oz after less than oz In 28 per cent of these cases there w s no residual urine befo e operation. Of tho e with esidual urine before operation 80 per cent were entirely cured

In conclusion the author stat s that b cause of its simplicity and its freedom f om ser ous complications the cautery punch operation should occupy a more important place in urology and that if urol ogists would study the various types of vesical orifices more carefully and would use the technique described they would be gratified with the results and the general mortality of prostatic surgery would be greatly reduced LOUIS GROSS M D

MISCELLANEOUS

Spitzer W M and Hillkowitz P The Cause of Stone in the U inary Tract J Urol 0 4 %

The urates phosphates carbonates and ovalates in the urine are in a saturated solution and are kent in solution by the colloid. This colloid state i un stable. There is always a tendency for the solids to fall out of suspension Other colloids of an opposite electric charge will produce this result. With the removal of the protective colloids the urine becomes supersaturated and precipitation results

The presence of an organic binder in stone is well known it consi to essentially of irreversible colloids that have been thrown out of suspension and con situte a framework on which the inorganic crystal line structure is built up. The ch ef characteristics of urmary stones are firmne s and concentric stratifi cation with frequently a radial arrangement of the The crystals usually differ from those found in pure aqueous solution in that they ar formed in a collo d medium. Some albumins especially fibrin when thrown out of colloidal suspension show marked stratification

The arree containing normally a number of colloid delicately balanced to maintain the solu bility of the colloids may be thrown out of su pens on by any pathological process-a metabolic disturbance or a change in the urinary passages. Any colloid thrown out of suspension may be the starting point of a stone Offering a relatively large surface it may by the faculty of adsorption favor incrusta t on of crystal In brief any heteroceneous sub stance any fo eign particle even an air bubble in a supersaturated solut on may serve as a nucleus of stone formation LOUIS NEUWELT M D

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Sullivan W. E. Geist F. D. and Mueller G. G.: Tie Fpiphyses of th. Bones of the Extremities at Puberty J B & & J 15 g 1924 1 239

The authors study was made on the cadavers of three children from 12 to 13 years of age Their report is divided into six parts dealing respectively with (1) the general characteristics of the epiphyses (a) the vascularization of the epiphyses (a) the epiphy es as criteria of age (4) multiple ossification centers (5) the relation of the epiphy ses to the joints and (6) a description of the illustrative plates

In agreement with Parsons the epiphyses are

divided into three grouns

I Those appearing at the articular ends of long bones and called pressure epiphyses because they tran mit the weight of the body from bone to bone 2 Those which form knob-like processes or caps ov r knobs where important muscles are attached

e g the tubercles of the humerus the olecranon the trochanters of the femur and the tibial tuberosits

These are called traction epiphyses

3 Et uphy ses which represent parts of the skeleton which at one time were of functional importance but losing their function became fused with the neigh boring bones and appear as separate ossifications only in early life These are called atavistic epi physes Examples are the region of the symphysis tub s and the tuberosity of the ischium which repre s at the ep pubis of amphibians an I reptiles and the hypischium of reptiles

Osification begins in the center of the cartilage and appears first at the larger end of the bone in the

larger cartilaginous mass

Because of the similarity of the traction ep physes to sesamor I bones and because of the occurrence of t vistic epiphyses it seems probable that all of the en physes were at one time independent skeletal elements

With reg rd to vascularization the authors state that it is not clear whether the epiphyses recei e their blood through an extension of the vessels from the shaft or through an independent group of ves sels Lathological data support both views

Practically all textbooks give the time of the appearance and fusion of the epiphyses Lapublished work by Hannon and Beffel of the University of Wiscons n suggests that a correlation of ossifica tion with sex stature and weight will indicate age

In many in tances more than one center of ossin cation is found. The best example is the region of the acctabulum. The suggestion is made that epi physeal centers are at first multiple and the number is progressi el decreased by fusion

With regard to the relations of the epiphyses to the joint cavities the I ne of reflection of the synovul membrane has been used as the criterion Lach toint is described with reference to the enphyseal or diaphyseal reflection of the synovial membrane

De 181, H. LEVE TRAL, M.D.

Alink riuss G H A Study of the Growing P wer of Periosteni (aliu Transplanted to Costal Cartilages S & Gy 5-Obt ourt

The author compares the growing po er of auto transplants of persosterl call s and sol' I bone grafted to the costal cartilages. Since at a certain stage periosteal callus is composed of rapidly proliferating osteoblasts on a highly vascularized stroma it was thought that this tissue would gen rate bone much more rap dly than solid bone which must first be brought to the stage of active growth after tran Periosteal callus was chosen also be cause solid bone transplants are usually absorbed and ret laced by new bone forme ! by actively grow ing osteoblasts of the periosteal layer haversian canals and endosteum

The costal cartilage was chosen as the most suit at le bed for the graft for the follo ing r asons

a As pointed out by Berg and Thalbimer it offers all of the cond t ons most favorable f r bone growth iz stress strain function and a med m which exc pt for the blood supply is ; lentical with that in which embryonic development of bone ACCUSE.

2 The results co 11 be 1 fged mor accurately than if the transplant were male to an ther bone because in the cartilag all new bone formed woul! probably come from th tran plant

The animals used were large bro n B lgian

rabbits in the period of acti e growth From these xperiment the author leaves the

following conclusions t Callus grafts grow after transplant tion 2 Sold bone gr fts u uall die an l become

absorbed being replaced by rew bone tissue result ing from th proliferation of osteobla is of the feri osteum en lo te m and ha run canals 3 Callus graft f em new bon m re at !! a !

in gre ter amount the sol I bone tran [1 ts 4 Call grafts persist a k g a sold in graft and become quescent at abo t the same time F W LTER C P TH RS MD

Brook B and Lehman F P The Bone Ch nges in Recklinghausen & Neurofibromatosi Gran 5-061 19 4 2 687

Recklinghausen's neurof bromatosis is character ized by mult ple pedunculated soft tumors distrib uted over the entire body with areas of pigmentation. The tumors may be distributed in the skin along the distribution of a cutaneous nerve or along a nerve trunk itself. Associated with this disease there may be changes in the bones. Stahnke has pointed out that the condition has the character of a congenital anomaly in the broadest sense. The bone changes include (1) scolouss (2) abnormalities of great and (3) irregulation of the state of th

According to the authors experience and according to the reports in the literature there is no other condition with spontaneous exce sive growth in length of a single long bone. The growth is usually associated with congenital elephanitiass. Irregularly, associated with congenital elephanitiass. Irregularly, the proportion of the control of the proportion of the control of the proportion of the control of the proportion of the control of the proportion of the control of the proportion of the control of the proportion of the prop

the bone

The \ ray appearance of these tumors is that of a bone cyst According to the authors all of these bone changes can be e plained on the basis of in volvement of the bone by the growth of the tumor tissue which is characteristic of Recklinghausen's d sease With the development of the neurof broma of a nerve in the perio teum a certain amount of reaction is set up which is follo ed by bone destruction and regeneration. The amount of cystic forma tion or bone destruction depend upon the amount of tumor growth The process may be compared to an osteomyelitis If the infection destroys the epi physeal cartilage the bone is abnormally short. In the authors opinion the scoliosi so generally as ociated with the disease is explained chiefly by the close association between the ertebræ and the peripheral nerves. It may be due in part also to the asymmetrical growth disturbances in the lower

In conclusion the authors state that the recognition of the described changs in the bones is of diagnostic importance particularly in cases in which the complete chinical picture beretofore considered classical is not developed.

F WALTER CARRUTHERS M D

Thomson J E M A Case of Kuemmel's Disease 1 b 4 k St t W J 1924 t 178

The author briefly reviews the literature on Aum risk of uses and reports a case of his or in The cond tion is often confused with compression fra ture of the vertebral body. Thomos stresse the fact of the vertebral body. Thomos stresse the fact of the perfect of the different perfect of the affect. It is the perfect of the affect in the perfect of the perfect of the affect in the perfect of the affect in the perfect of the affect in the perfect of the affect in the perfect of the affect of the perfect of the affect in the perfect of the affect in the perfect of the affect of the perfect of the affect of the perfect of the affect of the perfect The cas repo ted was that of a young farmer The mptoms were first noted s x months after the

injury The treatment consisted in Hibb's fusion of the affected segment of the spine A good result was obtained Beveringe H Moore M D

Lane J E Syphilitic Bursitis J im W iss 1024 lx 85

The author reports two cases of syphilitic bursitis

Case 1 The patient was a woman 50 years of age who was admitted to the hospital March 7 1921 for swelling of knees. Her husband had had syphilis for seven years and during the last four years she had had ulcerations on the throat arms and legs Physical examination revealed many signs of Each knee presented a tumor over the patella. One tumor was the size of a lemon and the other larger and adherent to the patella mann tests of the blood and spinal fluid were posi tive On March 12 1921 the skin over the left knee tumor began to slough off disclosing the contents of the prepatellar bursa. Arsphenamine treatment caused slow improvement Surgical excision of both bursa was done April o 1921 The wound in the right knee healed by first intention but that in the left knee required packing

Case 2 The patient was a man 49 years of age with ulcerations around the right elbow. Two years before he was seen by the author this elbo v was injured by a blow. A swelling appeared in a few days grew rapidly to half the size of an egg and in a few weeks began to discharge pus Subsequently a number of ulcerations appeared about the elbow Some of them healed entirely but others healed only partially Examination showed an irregular area on the right forearm 2 in wide and extending 4 in from the olecranon which was covered with scars and numerous unhealed and partially healed ulcerations Along the forearm ere three sub cutaneous nodules the size of walnuts which were hard and not tender The Wassermann test was four plus A diagnosis of gummatous syphilitie olecranon bursitis and multiple syphilitic gummata was made Antisyphili treatment caused imme diate improvement. The lesions were healed in eight weeks

The author states that only thirty four similar cases have been reported but that the condition is probably more common than this would indicate The usual course and delay ed diagnosis is illustrated by his two cases Frank G Murphy W D

Willis T A The Age Factor in Hypertrophic Arthritis J B & Jo 1 S & 19 4 \ 316

To determine the relationship to age of hyper trophic arthritis in the lumbar spine. Willis examined 625 spinal columns in a museum. The classification employed was that of Swaim.

Between the thirty fifth and fortieth years of age a definite change occurs in the body. This is greatest in heavy persons and least in slender persons. From the fortieth year onward the process increases steadily. After the forty fifth year hypertrophic lone changes are to be found in practically extyperson and proof regularly Other causes be Her aske are mechanical irritation from fully patter level principal or triumatic defects irritation lue to chronic infection and the absorption of form. The treatment must be increted toward the removal found to the foundation of the foundation

Forni C: Arthriti Deforman
Anatom pail logical Study
Fourteen Cases
(D lattic if m i t i liu saat m
juid m i qu ti i i a) Ch d erg d
men m is 10 1.

Authoris I formant in thous in the over and it error set all by with period of arrest. It may occur at any age but is most exmoon in milled it does not exace constituting all may be made have no relating to a set. I wall with mind in the right healtens in a pit in the late of the most frequently be per a metavarial part. There is no milled that the most frequently the hope of an entitled lavation and intarmatory processor and interest.

The symptoms res mile the e san chomic are theirs lat the ce them can be iff remarked I careful al stin a sheep symptom. The sand a strength of them are strength of them are strength of them are strength of the strength of

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Mifirst subjection and in tation of initial pred minate later objective in such as crepitus tropt ar initial deformits become vilent.

The entire just is in olved I the hip the femoral head is enlarged flattened and partially or telly

hanted perhaps into a new acctabular cavity on the thour The deformed acctatulum's affect with disformative are The bell and acctatulum's low marginal osteonetti lagroup profile factulum's low marginal osteonetti lagroup profile factulum's low marties and the state of the state of the state of the the fact and the state of the state of the state has a business of the state of the state of the substitution by accountries. The carity has the penetrates the deeper laster. The carity has the sures as that leaf home.

sure an 10th 150 born. The previous description of the previous of the born and cartilage. The often arithment on the born and cartilage. The often arithment on the born and ask doubtled are more frug to the previous feet as the vessels are more num rous. The spong osableeds and it aractical and firstle it as spaces may open direct into the p. at. The blood v. cla are selected. The first of the previous is this or flower and it feet men are the previous as the provious as the previous and the clarest and the capable to greatly the knowled and in the capable to greatly the knowled and in the capable to greatly the knowled and in the pasted and often extended.

The results of treatment are best at the uset of the condition and in soung persons treatment-cold applicate as massage of the wint and muscle regulation of the det etc -is only pall ative Surgi al treatm of by rest tion offers the best outcome an I is in heated when the disease dies not improve un! t con tratt e trestm nt le wh n p in is unlin in shed walking is impos by and mo em nt is pa nful In I p cases the i m ral had and invested ave in are removed the round d stump of the neck is fitted into the cleane i-out at tabular ca its an I fascia or muscle are interposed between the sturn; and the acetal ular ca its to facilitate mov m nt. The a cl of th fem rai neck mit be correct 1 b a subsequ at subtrochanten exter toms

The without reports ten hip cases and if we cases when he had metatarsoplalangeal, naise r most of la five (the hip cuse the coil 1 m has assent it with congenities lux toon in two with chronic rheamati m in two with infects n and wone with returnal. In the cases fast thrust leforerans of the metata with all me all your the cord inon as associated with half will algo into a nit that articular religious metatarsophisms and the metatarsophisms of the custom the control of the metatarsophisms of the control of the former than on the hip junit gave gool operative and functional results.

Authorities die ne cegari e the citolog and pathogeness of the endition. The light the or sacrified is to (il trauma (2) all minut re discrete in (3) a culti-die e lee ring to it nor rec at hij thes sits d to (i) firman cartif e nous necro a (whatusen) or () altered to et (il minor). In the citological constant of the constant of th

HALTER C BURKET M D

Phemister D B The Causes of and Changes in Loose Bod es Arising from the Articular Sur face of the Joint J B & Joi 1 St g 19 4

According to on theory the formation of loose bodies in the joints is due to the impaction of oppos ing articular surfaces with flexion and rotation Barth stated that small pieces of bone may be chipped off by the pull of ligaments on their points of insertion According to Kappis the fracture of articular cartilage may be painless because of the lack of nerve supply Freiberg and Roesner claim that many loose bodies in the knee joint are due to injury of the spine of the tibia Buchner and Rieger on the other hand believe that portions of bone and cartilage cannot become detached by trauma to form loose bodies Axhausen attributes loose bodies in the joints to sequestration following injury to the blood supply of the joint In Ludloff's opinion loose bodies in the knee are formed from the lateral surface of the mesial condy le as the result of injury to the arteria genu media which leads to nec os s of

the area supplied by this vessel

In experiments on dogs Phemister crused necrosis
of the joint surfaces by mean of radium but found

that this condition was not followed by sequestrat on Buchner and Ruger attribute loose bodies to fat embolism in the vessels supplying the affected region In a specimen of an intra articular portion of the distal end of the second metatarisal bone Axhau en recently found a low grade bacterial embolism of the

artery supplying the area involved. According to Fromme loose bodies are detached by the developm at of the zone of transformat on at the points of greatest stress. This occurs in mutri tional distu bances such as late. ckets and o teo malacia. There is gradual destruction of disks of bone with replacement by a partially regenerated fibroca tillar pous later.

In cases of loose bod es in the joint vith arthritis both conditions are probably du to the same disease process. Early removal of the foreign body, esuits in restoration of the joint. If the foreign body is not removed it cau es irritation of the joint surface which may result in arthritis deform in

Loose bodies may become permaiently re attached or undergo transformation and remain free in the joint. The bony portion undergoes necrosis but the cells of the abrocart lage recei e sufficient nutration from the syno ial fluid to proliferate so that the loose body gradually increases in size.

Phemister concludes that no entirely satisfactors explanation for the formation of loose bodies in joints has yet been offered

RUDOLPH S REICH M D

J nes II T Loose Body Formation in Syno ial Osteochondromatosi with Sp cial Ref rence to the Etiology and Pathology J Bon ~ J t S t 9 4 4 7

The format on of syno all osteochondrom ta 1 a rare path logical prices i und in ariou joint

bursæ and tendon sheaths. The term osteochon dromatosis is limited to synovial osteochondromata unassociated with frank osteo arthritis or synovitis For some undiscovered reason the synovial mem brane in cases of osteochondromatosis forms bodies s hich contain either cartilage or bone or both. At first these bodies are attached to the synovial mem brane by pedicles but the pedicles break easily and allow them to wander about Whether the bodies are nourished by the synovial fluid and increase in size after their detachment has not been conclusively estable hed. They are best considered benign neo plasms since absence of metastasi is an outstanding feature The process is peculiar in that the bodies are formed from the synovial membrane instead of from the articular surface as in osteochondritis dis secans and at times in osteo arthritis. The bodies formed in synovial osteochondromatosis are composed of organized tissues and are distinct from those compo ed of unorganized tissues which are termed corpora oryzordea or rice bodies

In the series of pineteen cases reviewed two which could not be diagnosed definitely as osteochondro matosi were designated as probably osteochon

dromato is

It is concluded that the bodies originate in the stratum sinoxial eof the spinoval membrane. The determination of the portion of the surface of the spinoval membrane is this seems most prone to produce bodies is of intere t. Special productation has often been noted in the region where the joint capsule joins the periodic membrane is a question whether the origin is from bone or from cartialge. Material studied indicates that the bodies may start either as osteomata or as chondromatic.

After the bodies enlarge they first become pe dunculated and become detached to form loose bodies They develop slowly tend to remain local ized and grow by expansion rather than by infiltra tion In the consideration of the growth before de tachment the cartilage was first studied. It was found to be pure hyalin fibrous or calcified or a combination of these forms Most of the cartilage in these attached bodies was well preserved but in the inter or of some of the large masses evidence of retrogre si e tissue changes was found. The notice ably lobulated forms often occurring in these bodies of cartilage may be explained either by the sending off of buds by the groving cartilage or by the fusion of isolated knots of cells in the synovial membrane into a single mass by stretching and crowding out of the connective tissue between the lobules

The study of the growth of bone in the attached bodies recaled evidence that bone is developed directly from the connective it such by the membrane method and also as endechondral bone by preforms attain in cartilage. With regard to nutrin oil was found that when there was vital proliferating bone there was also a blood supply but this bean there were retrogressive tissue changes the blood supply had been cut off Osteoblasta occur only where there is a blood supply.

Next in order in the study of the growth of the bone was a consiliration of the structures found One in typical and common fructure was the fit to-entercartilagin us shell filled with fat an I spirs of its new his his reastriking resemiliance to a cross section of a normal bone with its fatty marrow

Attent in it di ecte ! 1 the cond tions present an ! the changes that take place in the bodies after le tachment I vil tee of cartilaginou growth after fetachment is n t con fusive. The fin fine of well preserved cartilize at the surface of a loose body loes met trove that the cartilage is troliferating Sumerou free I xl es are foun I with marked retrogres is a ti sue changes even at the surface. On the other han I the small lowlies usually show exilences of nelicle or are definitely attached while the farger I al es are a nerally detached. The I ne in the deta hed bodies is always necrotic. Hence it i possible that cartilage proble rates when free in the synovial fluid (n wing bone d m n is a blood sunply The po sil lity of realtachment of a book after detachment is mentioned

alter detachment is memboned. The theory attributing the condition to oriection has very little up for other to the territure or in this very little up for the feet of the condition of the condition of the condition of the condition of the condition of the condition to train has very little upport in the derman literature I turb as very little upport in the derman literature I to ghat considered more import in in the high I and American I terrature I to ghat (I the nin teen cases stull it by the author traving was a fromtient time in the high. The opinion as express ell in the definition of pictus stulled and the prominence of traving and the high to the condition of the condit

considerable importance to traum in the etiol go

of this cen I tion According to the mbry log cal the ry a ivance i by Leser this chon from a I ke all oth re originates from scattere I embry olog cal rests which have arisen as the result of a fault in the mesench mai differen tistion in the formation of the joint. In the embrio before a joint is formed the cartilag which de lops into hone is enarated by undifferentiate I mesothe lium Some of these cells undergo mucoid d genera tion an I form a joint avity others become spin ile shaped and form articular cartilage an I those at the sides of the cavity form sy no 121 membrane With out doubt the bursal sacs which are often connected with the joints are closely related to the joints de el opmentall) is we do not know why he mesen chymal cell forms a mucoi I flui I while snother forms cartilage and another synovial membrane it is im possible to determine exactly how abnormal forces can cause cartilage to develop in the synovi 1 m m heane Howe er the theory is I geal It does not contradict any of the other I gical theories and the onse cration of the ti sues in their levelopmental stages helps us to approach the problem

the discu sion of the problem from the le elogmental standpoint lead. I cetly to the neoplastic theory which is supported in the I terature. Various other tumors of the snowal m mbrune have been reported such as fibromats in Jonatia and spromats. Several cases of mal-mant tumors of the snowal membrane have been reported but to the series of Cases studied by the author it was not tumors of the sprowal membrane abelies in placing the synowal membrane abelies in placing tumors of the \$3 novals membrane abelies in placing the synowals obsection lornals. Minit fig the limitations of the \$4 show my prepare argument the replacts, theory still has support in the restream stages of the differentiation of the shows and observed and the stream of the synowal observed in the replacts.

I mpt to reproduce certa a norm I structures Bef re giving his conclusion the author dehane a benign neoplasm as a neopl sin the actenized by an expansive rather than an infirsting growth by slo growth by the absence of mitoti figures by en acqualation I is failure in met stassate by non recurrence after complet removal by its composition of well-deremitate cells and by fis filter to not well-deremitate cells and by fis filter to the state of

Mackinn n A P : Progressi e Myositi Os ificans A Report of a Case and a Re iew of the Lit rature J B c' Jo 15 c ost vi 31'

Mackinson reports a case of togres 1 m mostliss ossic cans in a farmer to years of age who complianted of muck's stiffs as with a legan in his arms. It is a market stiff as which he was 1 years of age. With a period of lour years he had become practically distinct the stiff of the stiffs of the

negati c
Mackinnon reviews 132 cases reported in the
literature and draws the following conclusions

The disease develops in the first to decade !

The disease develops in the first to decade !

Ide and more frequently in males than in females

Here this, is not an important factor \(\text{M} \) in \(\text{e} \text{st} \) sh wincrod ctylia of one or more d gits \(\text{The n} \) we

bone has the characteristics of bone in normal actual

in \(\text{TO} \) other committation.

Ceorge A W and Leon rd R D Fundament 1

Facts Re affre to the Study of the be tebest in Indu trial Accident Cases had I g 0 4

The authors have mile a stuly of vertebration littons attributed to industrial accidents. As a mormal standard must be obtained before a variations from the normal can be determined they attempted to establish the numbly making tracings of 100 roomigenograms with little variation. The alerse of these was accepted as the normal

Among the common congenital anomalies is a bifd spinous process of the fifth lumbar vertebra. In the authors opinion this does not cause clinical simp toms and cannot be regarded as the result of accident Sacralization of the transverse proces is also common but does not cause as imptoms independently

Changes in the spine due to age the type of occupation and posture were studied. These occur gradually and are never attributable to any single

injur)

Changes due to injury are compress on fractures of the vertebral bodies. Thes never cause complete obliteration of the intervertebral spaces. The space may show narrowing but does not completely divappear. The authors have never seen a fracture of the body of the fifth lumbar vertebra. Meeningly disease which is sufficiently disease, which is sufficiently by the authors to disease rather than to injury.

It is doubtful also whether spondy lolisthesis can be produced by injury Sacro iliac dislocation a very rare true d slocation is caused only by extreme

violence never by lifting

H pertrophic arthritic changes which are com mon cannot be regarded as due to a single accident The type of occupation may be an etiological factor The changes are the development of years

S philis occasionally causes a Charcot picture in the vertebra: The changes must not be confused

with those due to injury

BEVERINGE H MOORE M D

Sorr l Sorrel D jerine and Couturier Suboccipital Pott's D sea e D ath from Menin gltl (M l d Pott sous-occ pt l m rt par mé n gut) B ll imém Soc al d Pa 9 4 zci

Sorrel E rard and Sorrel Dejerine Suboccipital
Potts D sea e Sudden Death (M 1 d P tt
ous oc ptal m rt ubit) B B et mêm Soc
t d P 9 4 xc 85

The first case reported was that of a girl 10 years of age who entered the hospital for the treatment of cervical adenitis Large irregular masses in the neck were partially softened on the right side and fistulized on the left There was a history of suboccip tal pain and fever for s x months. The head held stiffly was supported on the hands and flexion extension and inclination were greatly limited. The voice respiration swallowing and reflexes were normal No retropharyngeal abscess could be pal pated The second cervical sp nous process project d prom nently The skin test for tuberculosis was posit ve but the serum test was negative. The \ rav showed sinking f the upper two cervical vertebrathe atlas had collapsed on the axis and the odontoid process had ascended above the atlas

The pat nt was pl ced on a gutter bed in extension but her general conduinon steadily became worse A retropharyngeal absc ss devel ped and s bsided to a sm ll m ss without incision apparation of a l ge fluctuating submastoid swelling evacuated a

thick grumous greenish material which produced tuberculosis in a guinea pig. Ultimately there was total deafness with persistent headache and the appearance of kering s sign. Five months after a diagnosis of suboccipital I fott s disease was made

the child died in coma from menineitis

Autopsy reveiled meningitis of the cerebral con verity sinking of the two cervical posterior arches and two abscesses which arose from the occipitoatloid articulations. The abscesses had berniated symmetrically between the occur ut and the atloid arch and had spread out behind the spinous proc esses forward to the mastoid in front of the occiput to the fourth cervical vertebra and within the spinal canal to the third cervical vertebra. The occuput anterior to the foramen magnum the occi nito atlaid articulation and the upper surface of the anterior atloid arch were denuded eroded and covered with fungosities The oriontoid dislocated from the atlas had ascended to the anterior edge of the occupital foramen and caused slight narroy ing The intact spinal dura mater was extremely thick covered with fungosities and bathed in pusthoracic and abdominal viscera were normal

The second case reported was that of a boy of 13 years who had had suboccipital pain and limitation of the movements of the head since he was 4 months old A plaster jacket had been worn for one month The head was held stiffly inclined to the left by con traction of the sternocleidomastoid muscle Rota tion to the left was impossible and rotation to the right was markedly limited. Flexion and extension were also restricted. The skin and serum tests for tuberculosis were positive. The \ ray sho ed the posterior axis arch directed obliquely upward against the occiput The no terior atloid arch was invisible the atlas and axis were telescoped the axis being in clined laterally and the head and axis forward. The posterior pharyngeal wall was lifted away from the upper cervical column. This finding suggested ab scess but none was palpable. The reflexes were normal

The child was placed in a plaster jacket in extension in bed in the open air by the sea but steadily declined. Death occurred suddenly without sound or cyanosis and with only a slight convulsive movement of the limbs

Autopsy revealed no visceral lesson. The head and atlas were displaced forward sunken and rotated on the aris. The left atloud arch was penched between the axis and the occipital by inclination of the head. The posterior axis arch almost touched the occipit. There were two absences One was between the ocipit and the sistes of the occipital three distributions of the ocionic d and axis were object on the anterior surface of the first four crevical other on the anterior surface of the first four crevical other on the anterior surface of the ocionic d and axis were ulcerated. The ocionic the ocionic d and axis were ulcerated. The ocionic distribution of the ocionic distribution of the surface and at the second cer v cal vertebra at a point already narrowed by the oward luzation of the atlas on the axis. It is

probable that this produced sudden cervical compression above the level of the phrenic nerve roots with paralysis of the diaphragm and intercostals that caused death. Gauther reported a sudden death from cervical cord compress on at a lover level

The authors believe that this is the first reported case of pressure from a bent odontoid process. This could occur only in childhood when the odontoid has not yet been united to the axis. Union begins between the fourth and sixth years of axe and is not

complete until much later

The case is of interest because sudden death in suboccipital Pott of desare is rare the patient had been in bed in the plaster jacket in extension in an apparently correct position for fifteen months, a lateral X-ray examination showed a retropharyngical abscess and considerable luster on of the alias on the axis did not produce signs of medullary compression. Wirst C Bregers MD.

Brooks B Diseases of the Blood Vascular System of the Extremities J B & & J 1 15 18 1924

In one series of experiments on dogs the author studied the effects of ligation of the primary arteries of the extrem ties Ligation of the iliac and hypo gastric arteries resulted only in fatigue Atter a short period of weight bearing the extremiti s be came usel as but after a test they recovered and gradually improved until they were again normal Examin tion of the muscles showed only ischamia In other animals in which there was less collateral circulation beation of the ili c and hypogast ic arteries resulted in necrosis of the sk n and muscles with a sharp line of demarcation between the para lyzed and the unparalyzed muscles From these findings Brooks concludes that Volkmann sisch zimic paralysis is not due to permanent arterial obstruction

In a second series of experiments the effect of temporary arterial obstruction was studied. The effects of temporary orchission of the arteries of the extremity differed from those of permanent obstruction in that the necrosis of issue was more extensive in the muscles. The muscles showed many small areas of necrosis replaced by fbrows tissue.

A third eyes of experiments was carried out to determine the effect. I altered carculation in a single ruscle. The dogs rectus femons was free and I gated at its origin a of insertion. Ligation of the air clean point in a few instances the must became necroic and completely absorbed. The same result followed ligation of both the artery and the vent but the latter caused complete bearing of the muscle more frequently of the section of the

A fourth series of experiments wa carried out to determine the frequency of gangrene following ob stru tion of the primary arteries alone and following obstructs n of the primary artery and vein of an extremit) Obstruction of the il ac and hypogastic arteries of twenty ral bits resulted in gangrene of the extremity in fitten Of eight en experiments in which the iliac and hypogastric arteries were ob structed with the common iliac vein six resulted in gangrene In two animals in which persistent ordema was caused by injecting barium sulphate paste into the common that vein and the aorta was ligated gangrene resulted only on the side of the venous oh struction. The conclusion is drawn that the frequency of gangrene following the he tion of the arteries is decreased by a certain amount of simulta neous venous obstruction and increased by a greater amount of venous obstruction

anioun of verous unstruction.

In a fifth series of experiments carried out to determine the effect of ligation of the primary arts of land substeption, ligation of the primary went of land substeption, ligation of the primary went of land to students of the primary went of land to the series of land to the land to t

Transmission of the volume flow of the miner section. In a sail series of experiments the initial state of the flow of the flo

by subsequent obstruct on of the primary vem Applying there ults of the experiments to surgical therapeutics Brooks attributes Volkmann's ischemic contracture to total obstruction of the venous system without obstruction of the arterial system.

Contracture may? ilo tempora y or permanent obstruct on which results in evere anxin a followed by rapidly developing collateral circulation. Areas of focal ne ro de clop in the tissue and are replaced by abor o stissue with contraction.

In conditions in which it is neces are to ligate the main artery of the extr mit; the risk of gangrene will be decreased if a certain am unt of venous

obstructs n is produced

In case of posta coas gangrene amputaton is still the treatment indicated when the entire arter if tree is occluded. With an the arterial document of faced to a relative small area as in the case of thrombosis or embolism of the populicial arter, peri vascular sympathectomy or brudging by a vessel transplant may be done Reporter Section VID

SURGERY OF THE BONES JOINTS

Ber A Bone Regeneration Pseudarthroses and
Bone Transplants (Ueb
u b P ud th
pl t t) 1 kf kl Ck 923 CX N 1

In discussing callus formation the author pays particular attention to metaplastic bone formation and draws a distinction between purposeful and unpro eleas prodiecturion of callus i surposeful callus formation is dependent upon local stimulation by homonose. If this stimulation disk or is exercised as by unfection the callus formation is purposed set in fracture of both bones of the forearm a bridging callu is disadvantageou as it hin lers rotation but it call est of peduatritors in a single bone it may be of advantage. The author recommends the use of 2 per cent gelatine to prevent the formation of new bone siter operation on bone which has been fixed by the production of the productio

When a piece of bone is taken from the tibia the mo t perfect regeneration occurs when periosteum cortex and marrow are remo ed with it. If the periosteum and cortex only are remo ed or if subperiosteal resection of a piece of bone is done no true regeneration takes place. Enlargement in dentation or narrowing of the medullary ca ity is found n the area from which the bone was remo ed Therefore retention of the periosteum prevents res to ation of the bone in its former shape and results in a structure resembling a cicatrix. True regenera t in occurs only when the medullary cavity is spened some of the marrow must remain Extensive remov al of the periosteum leads to important changes in the bone Restoration of perfect shape is obtained nly when the defect in the bone is filled by extra vasation of blood

With regard to regeneration of bone in cases of defects involving the entire thickness of the bone interest if observations ere made in cases of apeno tal lengthen ng of the femora in dwarfs and it cases of shortened hume. The regeneration took in the case of shortened hume is the region of the thought the case of the top and the top and the top parts. The end of the bone returned in the the process. In the attempt to b ing about aperiosted ageneration of bone in the articular region after esection the fra ture nds were kept in apposition v. a along per d since it is as expected that the new bone to maxion is will be slow. The latter was now before the case bone to maxion will be slow. The latter was we call to make the case bone to maxion will be slow. The latter was now the case of the

Bes des. the met plastic regeneration which is unconnected with the bone no whome grows out from the tumps in the r gion where the p arts were former! stuared There are arous types of ps ud rth o (1) the rissure typ the most common at 1, which arises from ord n \ fracture of bones (2) pseudarthross from the interposit on of soft parts th most rare type and (3) pseudarthross du to a defect which is rare in times of peace but common during war

Fracture of the bone near a joint seldom leads to pseudarthrosis and failure of callus formation is rarely responable. As a rule the line of pseudarthro sis forms later in the callus joining the ends of the The fi sure in the callus runs sometimes transversely sometimes obliquely sometimes it assumed from the beginning the lines of an articula tion although the parts are immobilized and friction cannot be a factor Too much importance has been escribed to gross mechanical injuries in the causation of pseudarthro es Mechanical influences may favor retard or alter the formation of the articular extrem ities but never produce pseudarthrosis. As a rule the upper end of the pseudarthrosis has the form of a head while the lower end 1 like a socket but some times the reverse is found. The neighboring joints do not appear to influence the form of the useu darthrosis but inflammations and suppurations have a powerful influence

With regard to the relationship of pseudarthro is and callus the author states that all forms of callus which lead to fracture healing appear also in pseu darthrosis A pseudarthrosis in a transplant occurs at the exact site of the former pseudarthrosis. Un to this point the tran plant increases in strength while at the site of the old p cudarthrosis a weak zone i formed by an absorptive process pseudarthrosis runs at first in a straight line but later assumes the lines of a joint the head usually being above and the socket below. As a rule the transplant does not fracture but if this should happen to occur there 1 no reason why the fracture should not heal I seu larthroses are most common in transplants which are driven into the medullary ca ity in the form of a vedge. They are found be tween the surface of the wedge I in portion of the transplant and the interior of the bone and occur not only hen the chip of bone is bare but also when it has a per osteal covering. The third form of pseudarthrosis in a transplant arises between the end of the transplant and the bone

Bier sees in pseudarthrosis an imitation of the normal jo nt caused by a morbid stimulation. This stimulat on persists at the site of the pseudarthrosis Only thus are recurrences in the transplant explain able The formative stimulation creates an extra ordinarily involved anatomical structure a joint at a site where it does not belong. This formation is therefore metaplastic. It arises from portions of t ssue which fi st make bone After dealing with the bony br dges in joints and pseudarthroses y high are seen here Bier discusses Martin's experimental for mation of pseudarthroses After removal of the cor t xandp riosteum from the radius Martin regularly observed changes in the ulna consisting in a sympa thetic disappearance of bone and sympathetic pseu da th osis. In man the influence on the adjacent bone was less marked Joints near pseudarthroses have a tend ney to become ankylosed Operative pseudarthroses are followed by growth disturbances noteworthy also is the marked atrophy of the section of bone situated peripher 1 to the pseudarthrosis

In conclusion the author di cu ses the fate of bone transplants the quest on of new bone formation and the complete absorption and final dis appearance of the graft 4s a rule the transplant d bone takes the hape of the original bone but sometimes it conforms to that of the bone from which it was taken

The article is especially valuable because of the extensiveness of the material upon which it is based of pseudarthroses alone more than one ample are given

TRANGEMEM (2)

Oderm tt W The Formation of Pseudarthroses in Bone Fransplants (P d th n! id ng mt r 1! t rten K ch np) S I m d W d I d I 19 4! 56

The first case reported was th t of a 4 year-olds gri with paral, s of the right 1 g due to plot meshits. The ankle yout was fixed by arknowless the ankle yout was fixed by arknowless achilled through the calcaneum the tales and the old the that and pero term covered section of the ptt in st blue S cm long and from 6 to 8 mm vale was nutroduced into the canal. A plaster-of Paris bandage vas th na applied and the patient set home.

Eight weeks later the \ \text{Tay revealed a loss of continuity in the talcorural articulation. In spit ed another first on a pseudarthros developed \ F \ \) the town of the tarting misses from the end of the tibru and \ \(f \) mur and the drall god both \ \text{n s n n ropp n about \ \text{tay misses from the has n n ropp n about \ \text{tay misses from the the sap placed in the canal and \ \text{a place of Farts bandag apple do \text{the two month later th point was still mob le and the roentgenp cture how \ \text{deven fractures in the twop, mert one in the upper port \ \text{n of the lips in the twop, mert one in the upper port \ \text{n of the point capsule and the other in the epphysics! how \ \text{of the times of the riba.}

The author teports also a similar case in a girl of 8 years
These cases again demon trate that the holy has

These cases again demon trate that the body has the power to wear at av a nigdly fixed trusplant which interfers with necessary motion. This power is greater the younger the subject. Therefore op rations for arthro es should not be pe form d too

arly that is not bef re the fifteenth ye r of age
Tour x (Z)

FRACTURES AND DISLOCATIONS

II itam nn O The Findings in Bilateral Dill c til nof the Hip Subject dto Op ratin (Bid bop rt rd ppilt gr Huft r kg) kl

To determ the heads of the femora a case of bletral d locatio of the hp a girl operator bletral d locatio of the hp a girl operator bletral d locatio of the hp a girl operator g The l ft femor l he d had been replaced o e y as previou by but the repl cement of the right head into the ensure said l. section was done because of the great disability on both a des I nit four error arm the usu'i form of the h d and neck was

found on the right side but on the left side there was marked deformity of the head with shortening of the neck of the femure

Microscop cally the unreduced head showed a thinging of the cartilagnous covering a very small op physis and fracture remnants in the epiphysis base which Hestmann attributes to the reduced hone which Hestmann attributes to the reduced. The replaced head also showed distinct; minanty of a severe fra ture of the cartilage and hone these also Hestman in considers the result of the replace ment traums.

Heitzmann concludes that Perthes disea e is a fracture occurring in n crotic bone and that the development of Perthes osteochon! itis in the replaced femoral head as described by Brande is not a true osteochondris but a fracture due to r place ment traum

Dick on F D The Or rative Tre tm nt of Old Congenit 1 Disloc tion of the H p J B &

J 15 g 9 4 vi a6

In cases of old congenital dislocation of the hip ope atton is elective. The ind cations are disablify sufficient to interfere with normal life, and disfiguring

deformity

In the author's scries of eight cases the signs and symptoms were pain in the lower part of the back pain in the dellocited bip shortering of the bag is limp and diminished capacity for work. The disabitive therefore consisted of three factors a short extr mily an unstable hip joint and abuormal near the result of the first two.

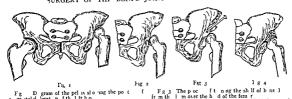
Of five cas soperated upon the result was sets factory in four the limitation of movement and the shortening of the leg being definitely decreased. In fifth case, infect, in caused limitation of mot on

The operation recomme ded const is in forming a near acetabulum by turning down a fi p f om the side of the ilium as suggested by Albee I is similar to that performed by Jones for dislocation of the hip

due to infantile paralysis

The patient was placed on a Brailord irame and traction was applied for two weeks to one the operation. The operat nn was p rformed on a Mc kenna table. Traction apparatus was applied to both legs. In the first case adhesi e plaster in the form of Bick's extension was used in the second case. I so the second case and the second case are tongs were applied and in the last three constitutions are tractions on the dislocated by The Smith Peterson into on was employed. All of the structures which seemed to interfere

All of the structures when a we have able to the cheered when the control of the dweet dwide. The representation of the dweet dwide the thompons tendon was dwide Alf to the head he d he in freed the add ctors were did the thread head that processed a creation was considered to both leg and gradully increased a creation when the paper of the control



Fg D gram of the pel is aloning the pote gettald locat in fth lifthp
Fb The postin fth hip after t if the eek a d ftr pull g down of the hip by tract Mcken in table at the time fight in the posting the second sec

large curved gouge It const ted larg by of the fal e acetabulum lined with a modified fibrous tissue which was mooth and thickened and resembled somewhat normal cap ular structure This prevent ed in some degree the formation of adhesions and ankylosis. After the flap had been turned down until it was in apposition to the head of the femur a wedge of bone taken from the crest of the ilium v as placed between the flap and the side of the ilium fitted into the space snugly and fixed with one or two catgut sutures The wound was then clo ed in layers and a plaster cast applied traction being maintained After the patient was returned to bed traction was cont nued by Buck's extension through slits in the cast in the first case and by the ice tongs and Stein mann pins in the others. A window i as cut for these instruments which had been left in situ

The author states that in the future he will not use a cast but will rely on traction to secure immobilitation. At the end of the fourth week the cast as removed.

and daily massare and cautious me ement of the hp were begin the cast being replaced after this teatment. At the end of si weeks the traction is arrowed and the patient was allowed up and about on crutches still wearing the cast. Gradual eight bearing was then perm teted. Traction was reapple when the patient returned to bed. The cast is a canded at the exposure, It Lewscraw, VLD.

Shipley A M A Rep t of 190 Fr cture of the F mur J B J 18 g 9 4 35

Shipley reviews 190 cases of fractu e of the femure treated at the University H sp tall Cline Baltimore during the last five years. He believes that in subcapital or intracapsual fractures of the neck of the femur a beef bone peg should be driven into the neckthrough the great trochanter. The next best procedure is immobilization in plaster in the Whitm in position.

Intertrochanteric fractures should be treated by immob is ation in plaster and the u e of the Hawles

Fig. 1 Th hp after p ration the hill b to ed down o er th h d of the firm a the widge of b p k d behi d th shelf b t h ld the latter place table to obtain extension strong abduction and

name to obtain eventson strong aduction and internal rotation. In cases of fracture past below the postune of the province of fracture past below the postune of the province of the made shaft closed reduction or open operation should be done depending on the indications. Supracondyloud fractures should be treated to the strength of the province of

Meverding H W The Non Operative Treatment

of R cent Fractures of the Fernur 1/1 /

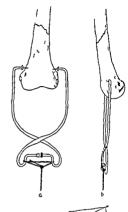
Meyerding discusses the rather unusual types of fractures seen at the Mayo Clinic and the comparative rative of recent lesions

Seventy five per cent of the cases of fracture observed in the May of In are cases of non union delayed union maliun on chronic o teomyel ti or joint stiffness follows ig treatment el ewhere. Of 1000 case of old fractures 221 ere cases of non union of the long bones. Of 120 uniunted fractures of the neck of the fermut twenty saw were operable.

For recent fractures of the hp the Whitman textument is advocated. Meyerdring has devi ed a method of obtaining joint motion after the sixth week by the application of two lateral hanges in opporated in the cast to prevent kene stiffness corporated in the cast to prevent kene stiffness of the cast of the

The relationship of age to the treatment is d s cus ed. Sometimes it is necessary to treat the pa tient and to accept the fracture with deform ty in order to save hie. Meyerding stresses the value of repeated Y are vanimat ons and mensuration. He bel eves that adhes we tract on and Buck s extens on





() C stappled f llows g Wh tman red tion It extend from the thorax to th to s n th fr ctured side a d to the knee n the souds d Alree wid will life or the p t lla d the abd min (b) A the s n thod of peetigk est f by mens fhigs plac d in th cast Lat the c st i cut t all w k mot o

as well as casts will continue to be used but will be gradually supplanted in most cases by adhes we traction combined with use of the Thomas e tension splint. He outlines the routine followed at the M vo Clinic in the examination and c re of fractures a d states that with such accurate records and intelligent treatment the phys cian is better able to pre vent embarrassi g complications For f actures of the trochanteric area and shaft he ad ocates exten sion treatment After revie ing the various methods of obtaining traction he states that the caliper This he uses in extension is the most effici nt conjunction with the Thomas spl nt or the Sinclair modification of this solunt

In supercondular lower femor I fractures the cal per is applied anterior to the axi of the femur and traction is employed in conjunct on with the use of the Sinclair modification of the Thomas spl nt the knee being flexed. Meverding believes that un less practically anatomical re position is obtained

(a) I e t g tra tro w h wing e to gs lightly a t ri v of th fem to pull the ppe d f th lim nt ant ridy () Re it I fo ce appled of the lor her fth f mu

intra articular fractures re ult in pe minent partial disab lity a d that therefo e in such c se operativ

interfe ence is justified I we c se historie a e reported to demonstrat ce tain points and the appa atus used in th Majo Clase s shown in ill trations two of which are re produced above One f the principal feat res of the May Clin c t eatment is the use f the Balka

frame in conjunction with the Bradford frame the latter being ele ated by the u e of a windl ss t f c ! tate nursi

Taylor W. J. Shaft Fractures of the Tib a and F bula \0 thx t M d 19 4 vn1

In the majority of the author's cases of shaft fracture both the tibia and fibula were involved. These bones are broken in about 10 per cent of all fractures

The most common cause is indirect violence. When the tibia alone is involved the fracture usually occurs in the middle third and there is some d placement of the fragments. When the fibula alone is involved the fracture may occur in any part of the bone. Tractures of the tib a are trans

ierse oblique or piral. In the reduction of fractures the fluoroscope, should always be employed. Since the tibus as the weight bearing, bone an associated fracture of the fibuli may be di regarded if the tibus is properly dayleted. In some cases relaxation of the contracted muscles may be obtained by simple meassage. Thomas plant is used with to lise eight. The extension is applied by a direct pull with weights or the use of a thumb screen arrangement.

After treatment for about a week in the Thomas spl nt and frequent fluoro copic examinations the leg is put in a splint devi ed by the author which permits daily movement of the knee Passive movements of the knee and ankle and phy softerapy are

instituted early

The author's splint consists of a base board jo in long 11 in wide and 1 in thick to which another base board mea uring 18 by 1 in is attached with figgs. The latter may be placed in any des red position. It is held by movable braces which mid mom be end opposite the high gest to the base board upon which resist the lies above the lane. At the end opposite the high size is att. Ched all o an ron frame 8 in long high is smil 1 to a Thomas splint and orison severes.

otks on swivels

When union is ell establi hed a cast 1 applied
and the pitient is pe mitted to use crutches. The
cast is split to perm t m s age

JOHN MITCHELL, M D

ORTHOPEDICS IN GENERAL

Platt II Th E rly Mechanical Treatment of Acute Ant r or Poli myel ti B : W J 9 4

The auth r states that these ous dis bility is suit a from acute ante or poliumed it as irequent by dependent more on the deformity than on the paraliss and that it is necessary first too creome the defo mits before carrying out measures to over more than the paraliss or to stable the point. The mountainty paraliss or to stable the point. The mountainty paraliss or to stable the point. The mountainty paraliss of the paralism of the deformatics are el musted the patient can usually vail, though he may require crutches.

As proph I cue t eatment must be begun early the sympt m of the cute d sea e mu t be recog n zed in the early stages. The echin cal stages with somewhit rbitrary I m is are described

1 The acute stage u ually lasting not longer than from f ur to six weeks

2 The recovery stage which extends approximately to the end of the second year
3 The chronic stage lasting from the third year

onward

In the acute stage the signs and symptoms are

usually stiffness of the neck pain in the back and limbs and marked tenderne s of the limbs.

The development of paralysis in a fan day of

The development of paralysis in a few days is very suggestive of anterior poliomyelitis

In the treatment mechanical methods are im portant Complete rest is the first essential This can be given by completely immobilizing the patient in the recumbent position. Deformity can be prevented by maintaining the limbs in positions known to be antagonistic to common contractures the lower limbs these positions are extension of the hips and knees with the feet maintained at right angles to the leg For the upper limbs they are right angle abduction of the shoulder flexion at the elbow supination of the forearm and dorsiflexion at the wrist Relaxation of paralyzed muscles is essential In the acute stage the patient should be kept perfectly quiet without any meddlesome therapeuti s until both pain and tenderness cease When this occurs which is usually at the end of from four to six weeks the patient should be exam ined He has then reached the stage of recovery and will require suspension for a long time to prevent deformity

The author concludes by stating that teamwork between the physician and surgeon is most essential FRANK G MURPHY M D

Non Lackum H L The Lumbosacral Region An Anatomical Study and Some Clinical Observa t ons J Am M 1sr 9 4 L vu og

This study a based on a careful examination of thirty bodies five of which were female

The specimens consisting of the pelvis and lumbar spine were divided by sawing through the midline the spinous processes and the bodies of the vertebrae on either side being thus exposed The author dis cusses motion and the articulations of the neutal arch in this region Normally the articulations are guiding planes on which gliding motion takes place They do not bear weight. In the lumbar region rotation is checked by definite internal-external articula processes lying in the sagittal plane at the lumbosacral juncture Motion is increased by the addition of more or less rotation due to articulations inclining outward. When these articulations are asymmetrical unequal rotation results and as the lumbosacral joint 1 the juncture of a mobile and an immob le part and the point at which there is a sharp change in the d rection of the spinal column it becomes weakened

The center of gravity of the body is approximately in the upper lumbar region and the weight bearing I ne f the spinal column passes down through the middle of the normal spinal curves leaving the lumbosacral juncture to carry all of the superimposed weight.

Regardless of position or weight the lumbosacral articulation bears the strain. The degree of this shearing strain is controlled only by the angle of the

upper surface of the first sacral segment

Stabilization of this joint depends upon ligaments

and muscles the intervertebral disk and the shape and size of the first sacral body The spinous pro cesses and laminæ also play an important part. The closer they are together the shorter and more com pact are the ligaments and the stronger is the part

In cases of injury to this region fusion may be es table hed without affecting the usefulness of the part

Among the important points brought out in this article are the following

The strain at the joint is always shearing regardless of position

2 The shape of the first sacral is of primary m portance in reducing this strain because of its bearing on the angles which either increase or decrease it

3 Backache may be caused by an increased angle and consequently increased strain

4 The rotating action in the joint favors the occurrence of fractures and dislocations 1 this region HERNAN C SCHOOL MD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

RICOOD VESSELS

Heard J E Postoperative Pulmon ry Emboli m 1 11 & S J 1924 I 4

Postoperative pulmonary embolism may be caused by a discharged blood clot or the entrance of fat into the circulation. It is often diagnosed incorrectly as pleurisy myositis or bronchopneumonia espe cially when the physical findings are fer differential diagno is coronary sclerosis must be considered

In an otherwise uncomplicated con alescence pulmonary embols in usually occurs within the first or second week after operation while the patient is engaged in some type of physical exertion. It cau es precordial pain a tight ensation in the chest dyspuces rapid and labored breathing and rapid pulse of poor volume The facial expression 1 and io 15 and the skin is cold clammy and covered with Death often follows in from five to cold swent

twenty minutes

The treatment of the condition is discouraging The conditions favoring the development of post operative embolism may be grouped as follous

t Conditions in the nationt such as (a) anaemia th) the pres nce of micro-organisms in the blood stream (c) leucocy tosis and (d) blood concentration

2 Faults in the operati technique and post operative care such as (a) p olonged use of the Trendelenburg posit on (b) careles transfisation of pedicles and I gation of blood vessels (c) prolonged time on the operating table (d) careless and rough u e of ret actors and (e) infection

Among the postoperative pre-enti-e measures are (1) the use of heart stimulants (2) the administra tion of large amounts f fluids by mouth skin or r ctum (1) the fr e m vement of the limbs as soon as poss ble after operation and (4) frequent changes

of position

In a large percentage of c ses of pulmonary embo h m death occurs within a few minutes after the on set of the symptom. The treatment should cons st in elevation of the patt at to fa or c piration fresh air or oxygen nhalati no the application of heat venesection if the heart a dilat d and the adminis t ation of cards c stimulants such as caffe ne stry hnine ammonia and ether and the administra t on of morph ne to rely ve the pain and counteract the shock

Trendelenburg has ad ocated operative removal of the clot in cases in whi h only one branch of the rulmorary artery is ecluded

Wilson in 1912 reported the cases of postopera to e emboli m occurring at 5t Mary's Hospital Lochester Unnerota from 1859 to 911 inclusive During this period there were I rty e end aths du

to embolism among 3 000 cases of major operations The diagnosis was confirme I by autop v in forty-one The total number of deaths in the ho pital during the same period was 864 The mortality from em bolism based on 61 5, 3 operations was 7/100 of 1 per cent or one death in every 1 352 operations There were thirty six cases of pulmonary embolism ten cases of cerebral emboli m and one case of coronary embolism In the period from 1912 to 19 o inclusive there were 104 cases of postoperative embolism Five of the patients recovered. In ninets of the ninety nine fatal cases the diagnosis vas confirme l by autopos 1 total of 125 164 of erations vere per formed Pulmonary embolism occurred once in 1 203 operations (S/100 of 1 per cent)

Tables are given showing the number and tyre of operations in which death occurred from pulmonary emboli m From these it is evident that the compli cation occurs most frequently after polyte operations MERLE R HOON M D

Helle S Bilateral Thrombosis of the Renal Veins in a Newborn Child (Thrombo der be dersettig n I nar nal be e m \ u ebor n n) Z ni albi f 897 63 k 923 1

The case reported was that of a previously healthy infant o days old weighing 3 200 gm. The sudden development of a high fever was associated with convulsions and the appearance of blood in the stools On the third day there was marked harma turn On the fourth day a Lidney shaped tumor the size of a hen's egg was demonstrable in the lift hypogastrium On the eleventh day only 40 c cm of urine were passed in twents four hours. On the fourteenth day there was anuma Death occurred on

At autopsy bilateral necro i of the kidneys was found This had resulted in thrombosis of the renal veins. Other findings were thrombosis of the inferior vena cava and gastro-enteritis The author ascribe the general condition to an enteric infection. He bele es it probable that the hamorrhage and infarction of the tubular parenchyma sere produced by the toxins excreted in great concentration by the

HA NES (C)

Perman E A Case of Embolectomy 1(1) 1 3 8 1941 55

The author reports a case in which embolectoms was performed on a man 46 years of ag bolus which was s tuated in the common iliac afters was removed by means of retrorrade probing through an incision in the common femoral artery The operation was performed one hour after the gas were first noted The circulation of the leg was

c mpletely restored

the fifteenth day

Lidness

Lundberg 5 A Case of Embolectomy

In the case of a 62 s ar oll we man with mitral insuffciency an embolis I came I I et in the femorel artery one week after an peration for altan mlate I hernia WI n the I moral artery wa is sected out the embe u was carrell's the car culation of we list atte pupit al arters I f fee t m on the pullit alart ywas perf im Inn teen hours after the neet of the sign. A come to our resal e t

Michael wn F A Case of Success ful Embeloc tomy (1 3 ll | go luckt of I min I kt min)

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upents the author The artist reports the author m t recent ea e in let il

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hen it is not in Ic tel with absolute c rtants. In en wh n opin a arteri seler s the auth extreme i ntacntra niction t sprout f the a ter priled the oper tin n be i unterloc lant the i ffaftere por it f int that the condit n I the arterial will e 1 rs atters tom impo ille an attempt h ull be m 1 to crush the thrombu thr ugh the nn I e el wall acc rl g to the m th fof M f and M the

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h mis opi a in the rest superior quadrant. C atral I sh o was presented

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str m nth

In the authors o inion later encus injections f soi m cittat should always be tt el in su h cases lef r recours 1 halt sure en Ste 1 of 1 h lad 1 this has a! ted the m th 1 in the treatment of rterit. Lut the auth is state th t he les rot En en u h I th citat. They beloe th tat I a t at not the i jections at all be gen dal an Ith am unting et 1 i h las should be between es them

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nsi fer til number a ut d b kin n ligation f the poplit til which s m 0.03 pli atel nl dang rous ope at n hould t be resort i to mall of 1 of th 1 gs c tells I rons I th authr pnin it i 1 1 diro th all fle onl h no ben ft is dire the who there is a few ninor troun fa than that tith surf ce th c If and ankle being ce fem to s ni pecklei with large ar cose pots

In proof of the efficacy of ligation of the populeal vem Bertone cites the clinical histories of five cases In the first case in which both popliteal veins were resected a recurrence developed in one leg after an interval of thirteen years but the other leg sho ved no si n of recurrence fourteen years after the opera The second third fourth and fith cases showed no sign of recutrence after fourteen years one year three years and two years respectively

BLOOD TRANSFUSION

Ricaldoni A and Albo M Ch on c Purpura without Splen megaly Cu d by Splenectomy urpu as h n qu na splo még i cgué p plét m e) Bil i mé S méd d hap d (Purpu as h nou 024 15 1 401

kaznelson was the first to employ surgery in the treatment of purpura with splenomegaly. Minkow ski performed splenectomy in cases of purpura without splenomegaly. In 10 2 Steinbruch collected ten cases of thrombopænia for which splenectomy had been done

Ricaldoni and Albo of Uruguay have performed splenectomy in two cases of purpura in women They regard the operation as indicated for the con dit on even in the absence of splenomegaly or any

other clinical sign directing attention to the spleen In both of the authors cases the purpura was of the chronic type as ociated with men trual parox 1sms The factors responsible were changes in the spleen so slight that they were not perceptible on clinical examination. The is in agreement with the

observations made by others in cases of hamolytic and other an emias not associated with splenomerals. Before advising solenectomy the surgeon must

be sure that the condition is not a secondary nurnura and that the hamorrhage is dangerous

In the authors fir t case the operation gave an excellent result which has been maintained for four vears In the second case it is still too early to judge the end result W A BRENNAN

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Pfahler G E The Study of the Sternum by the Roentgen Rays 4m J Roe Ig not Radi m Th py 19 4 x1 311

In I fahler a opinion discuse of the sterium is more comm in than a generally belleve! Examination of the sterium with the recoligen rays in every case in which there is any suggestion of sternal lossase nould increase the number of known on experimence of the sterium noted on physical extraordination of the sterium noted on physical extraordination of the sterium noted on physical extraordination of the sterium noted on physical has found that metastatic enversions, of one factor of the sterium of the breast is not rate.

Tuberculosis pressure necros s and traumatic lesions have also been noted. The pathologi al findings do not differ from those in an logous lesions

of other bones

The examination should be both recatgenoscopic and recatgenographic. Thoroscopy will and in determining the last angle at which to make the exposures in the two oblique planes. Recatigeno grams should be made with the patient standing in the right and it he left oblique positions and in a true lateral position. The last is probably the most important.

The article is supplemented by numerous illustrations of the arious I sions of the sternum as revealed by the roentgen ray

CHARLES II HEACOCK MID

Stenstrom W Do age One and Two Centime t rs und r the Skin from Unfilt ed X rays J Ca R r h 9 4 M 8

In the treatment of skin of seases with unfiltered rap, sit is often desirable to give the leaun from too to three times the cry them of one and the question are as so how deep the reaction pertail sell-Beleving, that the measurements obtained with indirection chambers or photographic films and absorption materials are not apt to be proportional to the effect in the t uses the author decided to use the cry thema p oduced on the skin as a standard for such measurements

Two experiments with patients were curried out Five circular fields 2 cm in d ameter were exposed to different amounts of radiation without and with 1 or 2 cm of paraffin superimposed. The results

are given in tables

The first experiment demonstrated that the depth dose as heavier the hadd be no superted. In the second smaller doses are used. Although the estimation of the degree of the erythema from the color was somewh t arth arry it was possible to conclude from the two experiments that a depth of 1 cm the dose w s more than 5 oper cent and

less than 60 per cent of the skin dose and that at a depth of 2 cm it lay between 25 per cent a d 35 per cent. The probable values at a depth of 2 and 2 cm are 54 per cent and 32 per cent of the skin dose.

Webb J C S me F perlences in and Con idera tions of Deep X Ray Therapy B 1 M J 19 4

In Contine tal Europe and the British I les there are considerably more than a roo deep therapy \text{Yax} installations. One bundred and thrity are in the British I slees. From it is the author concludes (a) that the medical world at large considers the value of deep \text{Yax} the app in mal mand it ease as proved and (a) that British is behind the rest of the v orld in study in and all usins. If

Webb's experience is I mited to eighteen months and while this period of observation is brief he is greatly impresed by the pulliative relief especially the relief from pain in the hone is cases.

In conclusion Webb states that the roentgenolo gost knows something of surgery and medicine and the surgeon and physician whose province it is did it eroentgenotherapy. hould know something of the de elopment and potential tes of this modern science CREMES H. HEACOCK M.D.

II rly L. The Present St. tu. of Int. nsi e High Voltage Radiation Th. rapy of Concer. J. R. d. I gy. 19 4 v. 7

A brief review of the evolution of rad otherapy from the time of the disco ery of the receigent Y to date is followed by a m red to led description of the rationals design technique of sessible obtained by numerous Duropean sorkers in the field. Ya outs opinions of star ties are quoted richit to the value of prophylactice p ourse follow; goper ton for malignances. Yn extressic boll straphy is append d. The following conclusion as red from

is append of the innowing conclusion and of the in A hoops, performed before radi tion treatment is without harmful effects

The roentg n rays do not directly kill cancer

3 A standard carcinoma dose or sarcoma dose of roentgen rays cannot be established bio log cally

4 There is no indi putable proof that in ufficient rave g stimulates tumor growth

5 Si e carcinomata a of different types a didegrees of maligna cy which are not alvays distinguished in the more cope it is imposable that the same mith did freatm in dithe same dose will pod ce a cu e in il types.

6 The cord tuon of the orga m in general ca not be neglected in se ki g ndicatio s for roentgen

cells

ray therapy. Undernourished and cachectic per sons are refractory to the rochtgen ray

7 From the evidence at hand there seems to be no reason why with increased distance filtration and time the old matchines commonly used in America for therapy will not produce as good results as the high voltage apparatus introduced by the Germans.

8 Intensi e high voltage raying damages the normal tissues Connective tissue damage breaks down the harriers to cancer cell invision Damage to the endocrine gland reduces the general resi t ance and by tiself may lead to death.

Aboten H Rung MD

MISCELLANEOUS

Pack G T Underhill F P Fp tein J and Kugelma s I N Experimental Studies in Electro I nic Medication A J M S 924

The originator of the electro ionic therapy was Stephen Leduc of Nantes In one method of giving thi treatment the arms or legs are immersed in olutions in contact with electrodes on of which solutions contains the drug to be introduced through the skin and the other a 1 per cent sodium chlori le solution. In another method, thick layers of lint saturated with the m dicated solution e placed between the skin and one electrode and the other electrode is applied else here on the body. The negative or positive el ctrode a used with the drug according to whether the desired ion is the cation (neg tive) or the anion (posit e) In experiments on rabbits the ears may be imm reed in the olution A 20 to 30 olt current of 2 or 3 ma is used for varying periods of time

Named in the ord 1 of dec ea ng rest tance to el ctrizid currents the issue are bone fat tendon skit mus le blood and nerve. Am ist skin i less resistant than a dr. skin. The physicochemical effects of the lectur Lourr at on electrolites (b. dy effects) and the skit must be a similar to the constraint of the constraint of the constraint of the constraint of the current 1 shot nor at the facility with which the current 1 savels and the nors migrate. Metals high rin the ditromotive serts a displace inferiorly place dimension of the resistance of the current 1 savels and the nors migrate. Metals high rin the ditromotive serts a displace inferiorly place dimension of the resistance of the constraint of the co

The author summ rizes his indings as follows 1. The electric current may be u e l as a means of driving ious into the kin. In this transfer various factor at in. Hed such as the amperage used the time of the application the resistance of the transfer time of the application the resistance of the transfer and the second secon

and the migrational velocity and chemical nature of the entering ion

As soon as the ions of the heavy metals such as Hg+ Mg++ Zn++ Pb++ emer the shan they give up their electrical chara, to other much faster traveling ions present in the ti ue such as II Na Having lost their charges the metal then enter into comil nation a with the protein und salts of the itssue and my form precipitates. These precipitates are related to the common chemical tests. Heavy metal may therefore be efficient for a local effect but not for a systemic effect.

2 The electric current facilitates the introduction of many alkalor is through the skin. In rabbits systemic effects of strychnine and pilocarpine were demonstrated after electrolytic administration of the frug for approximately one hour Control with out the current were negative. The action of caffeine and curare as gauged by systemic effects failed to be dem instrated in rabbits after electrolytic administra tion of the drug for approximately two hours. In frogs the action of curare picrotoxin strychnine veratrin and nicotine was shown to be definitely accelerated when the drug was introduced into the skin electrolytically Electrolytic experiments with local anasthetics in which a current of 2 mg was used for ten minute upon a human subject showed that cocaine produced moderate but incomplete anasthesia of the finger lasting about an hour pro came and butyn produced mild anæsthesia lasting about half an hour and benzylcarbinol and salicain failed to produce any appreciable anasthesia

3 Hoolgen non-metal and acids being mions are introduced by anothories. The ingress of some of them is demonstrably accelerated by the electrical curr in (CN 1;) while that of others (NO salt cylates) in out affected.

4 The theory of detoxication of poisonous ions by elect olvsis is falliac ous. The application of an electrical current is not specific for the effress of particular ion except those with a relatively great migrat onal velocity (II Na Cl. 4). The migrational velocity of the ions of the common poisons is the standard of the common poisons.

ery small as compared with that of the ions nor mally present in the tissues. Therefore the principle of d toxication cannot b applied to the former

5 After the administration of solides by mouth or subcutaneously nascent ordine can be I berated within the tiss ies by the unsertion of a positive with of an electrod I lossilly this principle may be utilized in the treatment of certain infections. However, equally beneficial effects seem to be obtainable from the application of the electric current itself as the result of the mark of it is we changes produced.

WALTER C BURKET M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -- THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERE CE INDIC TO THE PAGE O THIS ISSUE OF WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

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International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

7 VRIOUS phases of the cancer problem are con idered in four exceptionally interesting reviews in the month issue of the ABSTRACT The parasitic theory of the origin of cancer i discussed in a carefully studic I paper by Meyer (p. 330) the limits of deep \ ray therapy and operation in the treatment of malignant growths in general are defined by Holfelder (p 336) on the ba is of the results obtained in Schmieden's clinic in Frankfort the causes of failure following \ ray treatment of malignant tumors of the female genitalia are considered by Sippel and Jacckel (p 337) in a résume of the re sults obtained during the past eleven years in Bumm's clinic and the object of carcinoma of the exsophagus is reviewed by Quick (p 203) with reference to the diagnosis and management

A number of abstracts concerned with the general subject of the blood and lymph systems are also worthy of particular attention. Lewisolin reviews the subject of blood transfusion by the citrate method on the bas so for ten years observations (p. 333). Walterhoefer and Schramm report the results obstanted in the treatment of permicious anamia by the removal of marrow from the long bones (p. 333) and Ro enthal and Baerh discuss the paradoxical shortening of the coughlation time of the blood following the intravenous niece.

tion of sodium citrate (p. 332)
The otologist will find a number of important abstracts in this month a issue relating particularly to his field of work. A sympo ium on sinus thrombosis presented before the Viedral Society of the State of Pennsilvinum (p. 253) and secusion by Chamberlin of Gradenium (p. 253) and secusion by Chamberlin of Gradenium (p. 253) and the of actual wine in aural rupper (p. 283) are port his Viedral of the security of the configuration of the security of the securi

napers of particular interest

M'00 interesting abstricts—Speck Liljedahl and Falk a observations on Fourhet iets (p. 363) and Graham Cole and Copher report of V ray vi adianation of the gail bladder following the intravenous injection of soft-meta-teriphomophenolphihalein (p. 363)—reflect the constant search for more accurate methods of pre-operative recognition of gall bladder path old v

Three helpful papers embodying statutural tudies are reviewed in this month's issue Braa ch and Fould's report of the postoperative result in rout ca es of nephrolithius (p. 108). Eichels tudy of pureperal epis in New York City and New York State (p. 314) and Diazed's review of 465 cases of toxeman of pre rance (p. 117) involve such important subjects and uch large numbers of case, as to admit of defi

nite an I well founded con lu ions

A number of other abstracts of particular me portaines shoul 1e brells mentioned. Learnes report of forts six cases of survery of the pixel ord and its roots (p 80) represents one feature of the important work of the Lyon Chuze Guihals discussion of the surgical treatment of chronic bronchial dilatation (p 290) is another helpful contribution of Ferench origin. Deart spaper dealing with the treatment of chronic period current of the contribution of Ferench origin. Deart survey paper dealing with the treatment of chronic period cutter (p 290) represent the studied conclusions of years if surgical experience and attainment.

Gruber scareful description of the pathological anatoms of duodenal ulcer (p 20) contains and dualed information of very practical importance to the abdominal surgeon. Douglas will-considered discuss on of subdapharematic aboves and accumulations of fluid (p 304) lased on a study of else on cases and Schwartz s description of the technique and results of ettirpation of the technique and results of ettirpation of the tennas rese colon (p 307) thou h tooking ubjects of less common intere t are the more valuable by reason of the difficult of finding accurate and detailed information concerning them in the sources at our command.

INTERNATIONAL ABSTRACT OF SURGERY

OCTOBER 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

D Schweinitz G E Thrombos sof the Ca ernous Sinus til 10 W J 19 4 1 155
Smith S MacC The Etiology and D agnosis of Lateral Sinus Thrombos 4 4tl 1 W J 9 4

Day E W The Treatment of Lateral and Cavern ou Sinus Thrombosis 1tl / 3f J a 4

DE SCHWEINTZ The cay mou sinus is a paired insi which passes along the sales of the body of the spheno! Bone from the sphenoidal basire in front to the apex of the petrous portion of the temporal bone behind. It is about z cm in length and comes in close relationship to the internal carroit arrespite this d and four the cranial increes and the first dropsion of the fifth and sorth transil nerves.

Cavernou thrombo! I a comparaturely rare condition II is utility condition. If it is utility condition. If it is utility condition is dead if (traumatic type) rt dut to infectious originat ing in the ars face o but in en di accessor was assumed mouth pharn in neck or c lp. It may be explicit or supplie unulate at of bulls at The primary infection which is most commonly arou I the ear in the primary infection with its most commonly arou I the ear. In agentical force such as a small bundle.

The symptoms are those of a spitzema plus are our outline manif that not be the outline about an another manif that not be the outline as and movis ment of the occular neves. In easing exophibalizon a the admin of the evolute the out of the note and the capital the evolute in the outline of the note and the capital that is a programment of the pupis may be present. The et nal ve ns are distincted and totations.

The diagnos s 1 made 1 om a septi temperature s ith cereb af sympto us exophthalmos increasing facial ordema anasthesa f the cornea and impair ment of the motor nerves of the eye

The cond tion must be differentiated from orbital cellulitis erysipelas of the lid and th ombophlebitis of the o bital veins

Sutil As the plate of bone separating the lateral sinus and the interior of the skull from the middle ear and mastod: thin a large percentage of intra cranial lessons are secondary to car disease. Because of the extensive intercommunications of the venous carculation of the brain infection of one sinus can be readily convered to another.

A clot or thrombus produces marked symptoms only then it breaks down and forms pus

An cally diagnoss soften impossible especially, in attypical cases. Civen a cute prepenting r nos a temperatur. In the oscillates at regular intervals localized pain and tenderic a over the ma tool and missipale and possible soft and the diagnossis mentality and a possible productive the diagnosis of lateral sinus thromboss is complete. A history of previous or present auril disea e is yet; minoritant

Exploratory puncture of the sinus cannot be en tirely relied upon for diagnoss since in cases of partial obstruction it may be misleading. Y ray tail ags are of no value and lumbar puncture will help only, indifferentiating between review its and sinus thrombosis. Mental clearness is character its of cas so it, occomplicated somus thrombosis.

Day The treatment of saus thrombosis is usually surg al although the sense have been reported in which spontaneous obliveration of the saus occurred. It is sort the thrombosis obliveration of the saus occurred. It is not the thrombosis obliveration in the sense of the thrombosis of the sense of the thrombosis obliveration. In every case of probable infection the hereal saus should be exposed for it see too. The three beautions of this samu is subject to marked that the positions of kept in mund. Injury to the same of during the same of the same is such an accident is embarrassing but should not cause it a barndomment of the operation as the harmo rhage can usually be controlled in the the operation proceeds.

If a th ombus is pre ent the amount of involvement; determined and the clot removed the hame thage being first controlled as well a possible with a gauze plug introduced between the bone and

the smus to obliterate the lumen. The Jugular ven is then ligated in the upper carotif triangle on a level with the thyroid cartilage. If this vein is throrboord it is ligated lower down in the neck. The eather the diagnoils and operation. He more

ane eather the disgnosis and operation the more successful are the results.

In cases of caverrous sinus thromboss direct operative attempts on the sinus have been shan doned linited the primary focus of infection has been attacked in the sphenoi lai or ethnosi la cel a with the hore that the infecti in may be so light with the hore that the infecti in may be so light

that a spontaneous cure will result

Crait I Glaset M D

Moore C. A. Hadh ld C. and C. remont 1 F:
An Exten i e Multilocular Cystic Epithelial
Tumor of the Jaw F 1 J S. g. 1914 | 679

The authors report the cas of a man from whose menuin a small tumen had been removed at the age of 20 years. After this operation there was no interfer trull tentification years later when the jew began to swell again. The authors removed an integrabin robular cystic mass through an includent cystic mass through an includent on below the jew and exceed the affected ports to do the man like Textrarschal areathesis as used the man like Textrarschal areathesis as used to the properties of the control of the contro

Microscop c examination showe I the tumor to be an ep thelial odontoma (a lamantinom)

EYF

Youn C An Operation f r Congenital Provis-B 1 J Ohk is 4 vi 272

Young lescribes an original operation he performe I in the case of a young noman with complete prosis of the right eyelid due to absence of the levator

palpebra
A general anexthetic was employe! The superi recruis muscle was expose! for about it mu up to its
recruis muscle was expose! for about it mu up to its
how the upper full exerted and the numbel restricted
trains crisel) with a scalled where the upper edge of
the tarsus cross dits I day. The upper edge of the
tarsus was then sposed actly to the extract of the
within of the muscle and the entire which of the
numbel.

The satures were left in place and the h l was not verted for a month for fer of loosen got the attach ments. A pers stent flush listed four months until a stutue appear of. To prevent this boung suggests bringing the stitches through t. the outer surface of the hd and tying the mover glass beat is I of May 1924 ten months after the operation the functional and cosmetic result was excellent.

LYMAN A COPPS M D

loung G A Surgical Method of Dealing with heratocomus L 1 J Oph h 19 1 v 1 m.

Loung reports the case of a non-ly noun hed to

year of figirl with bilateral keratocomus who dimig an attack of pneumonia, levelope i such a mirkol staphylema of the left cornea that bursting was in minent

To save the eyeball he performed the following

orscration The corner was transfire I by four needles two Portzontal and two vertical which entered the ant mor chamber outside the base of the staphylona and issued at a point symmetrically opposite. Each pair of ore lies was threaded with the en is of a silk suture so that when the two sutures were drawn through an I tie I they con, tricled the entire st phy loma I ke a pursestring The Staphyloma was then sheed of and atroy in and a bandage were at fol The sutures were temp and at the end of h e days. There was little reaction. The pati nt was discharge ist the en iof a week. The corner smoothed n and at the end of a month presented a regular spherical surface with a stellate I come at its center Two months fat r an o nical indectory down and in was done Subsequently I it yo a was and with correction " "till later it was I'm proveito with correction

Prove 1 to with correction

Lynn A. Corrs M.D.

Decker J C C) cloplegies in Refraction Perma not Lessuf Accommodation Filowin the Lac of H matroin 1 of J Ophia 10 4 15 443

In the cases of adults Decker uses how tropa do gr to the ounce) routin h Decker has in thicking each ejec to fifteen minutes until from 1 to force has been present depending on the part of its and refracting is done differen minutes after the in a time of the hast drop. Miter the examit sum his been mid 1 or 2 drops of es rine shuttom 2 men for safety and comfort and to short in the

period of disability. The patient whose case is reported in this article was subjected to the regular rout ne examination and applied to the regular rout ne examination and the foreal stage print. The flag state re-ensular the tree use of extinct the cit up mu che remained paralyzed. Two me that later after all food of a fection had been climated and all measures of general medication in the description of the examination of the proper finally the patient was given before lightly the patient was given before glasses and these provide cutterly assistance.

Decker is unable to explain the paral) sis.

Jos ph II M. Retiniti Pigmentosa (1 Pseudo-) P × k y Soc II J Lo d. 9 4 1 et Ophth

When the patient a woman 63 years of age was first seen by the author she complain d of headache She had never noticed any defect of viso or any night blindness



The fundi show the picture of retinitis pigmentosa and the fields an annular scotoma

The vision is normal to Young's threshold test Visual acuity right $+25^{-6}/9$ left $+25^{-6}/9$

Imre J Jr On the Endocrine Origin of Primary Glaucoma A h Ophii 19 4 l 11 05

Inne reports in detail eight cases of a group of thirty-one which in his opinion tend to prove that a very large percentage of primary glaucomata are based on constitutional anomales. In twenty seven of the thirty one cases the endocrine system was abondered one or more gland being degenerated or underdeveloped. After careful study, extract of the gland at fault was administered and in many of the cases it reduced the tension. When the cases it reduced the tension. When the property of the property of the cases it reduced the tension. When I was the cases it is the case it is the case it is the case in the case it is the case in the case it is the case in the case it is the case in the case in the case it is the case in the case in the case in the case is the case in the case is the case in the case in the case in the case is the case in the case in the case is the case in the case in the case is the case in the case in the case in the case in the case is the case in the case in the case is the case in the case in the case is the case in the case in the case in the case is the case in the case

Wilder W II Some Phases of the Glaucoma Problem M 1a M d 9 4 1 343

Wilder regards it as extremely difficult to make a definite assertion regarding the causes of glaucoma because in the exam nation of eyes that have been glaucomatous for som time there is always the question as to whe their the findings of the cause or the effect of tho dis a e

The condition occurs most commonly in middle and late like at a time when the lens grows larger reducing the ci cumlental space and interfering with the outflow of duid by pressur upon the root of the iris. The fibers of the pecturate ligaments are thuckened and the lymph h nucle are contracted Glaucomar rely oc urs n persons who are in good health.

In acute congest e glaucoma the diagnosis is usually n t difficult but nithe non-congestic forms the occasional or const nitherease in intra-ocular pressure the cupping of the disk and the degree of loss of central and peripheral vision must be borne in mind. The fields of vision should always be taken

by the same person and in approximately the same light and colors as well as form should be recorded accurately in order that comparisons may be made from time to time. Outlining of the blind spot and paracentral scotomata both relative and absolute is exceedingly important.

Operative procedures are necessary when in spite of general treatment and the regular use of myotics the records of the tonometer at times show increased tension even though the increase is not great and the fields slowly contract or show enlarging scotomata with a possibly normal central vision

THOMAS D ALLEY M D

Fuchs A Changes of the Disk in Cases of Glaucoma Am J Ophth 024 35 24 425

By means of excellent illustrations the author compares the disk in glaucoma with papilla which resemble them Changes in the papilla are due manify to (t) increased intra-ocular tension (2) the condition and the position of the lamina cribrosa and (1) rigidity and resistance of the cornecostera

In many cases of glautoma ophthalmostopic examinations are very madequate. A thorough examination especially of the blind spot should be made by Bjerrum a method. In spite of increased tension the vision may not be totally abolished because occasionally a tension of from 30 to 33 mm. Hig after an operation for glaucoma may be bome for years atthout mayn. The advisability of a second operation is determined by the visual facility arther than by the tonometric readings. I. L. McCov. M.D.

Verhoeff F H Cyclectomy a New Operation for Glaucoma A ch Ophih 1924 1 : 228

Verhoeff reduces the intra ocular tension by excising a piece of the ciliary body through a scleral incision parallel with the limbus and 5 mm from it and performing a buttonhole indectomy. In only one of the cases reported was the result unsatis factory.

The advasability of an operation in oliving removal of a part of the ciliary process must be questioned but the author dispels this criticism by epilating that the part of the chary body directly affected by the operation contains hitle if any more uveal tissue ger unit area than the ins and the part remaining in the eye is less severely transacted by an indectiony than the ins.

Adler F 11 Landls E M and Jackson C L The Tonic Effect of the Sympathetic on the Ocular Blood Vessels A ch Ophia 1924 his 239

The authors have demonstrated experimentally on animals that the intra-ocular pressure is increased when the blood pressure is raised. This sudden changes in the intra-ocular fension from sudden changes in the general blood pressure are prevented. When the cervical sympathetic is cut the intra-ocular teasion increases more rapidly with an increase in the blood pressure. Vormally therefore the sympathetic aerts a protective action through a

local constriction of the ocular blood vessels. When the blood pressure was normal no effect on the intra ocular tension was noted when the sympathetic was severed VIRGIL WESCOTT M D

McClintic C F Anatomical and Function 1 Relations of the Visual Apparatus to the Cen tral Nervous Sy tem Ci at J M 024

McClintic correlates anatomical and physiological facts with certain clinical phenomena of the visual apparatus The latter cons sts essentially of a focus ing bulb a retina or sensory ending an optic tract and cerebral centers supported and subserved by var ous muscles membranes and bon s

Tenon's can ule forms a bursa like structure whose space drains lymph from about the eye into the subarachnoid space and connects with the cap sule of the opposite side. The pace is favorable for bacterial growth and its connections to a certain

extent explain symp thetic ophthalmia

Three groups of smooth muscles are associated with the eye externally a group in Tenon's capsule Mueller's muscle over the sphenoidal fissu e and Muell es muscle in the upper hd. The intrinsic muscles of the eye consist of the dilator and con strictor of the pupil and the ciliary body. The cells of the ner e fibers in ervating these tive muscles all he in the nucleus of Edinger and Westphall but the peripheral distribution of the fibers is quite diverse. For Tenon's capsule Mu ller's muscles and the dilator fibers the approach is by way of the sympathetic ith a synapse in the super or cervical For the constrictor i the pupil and the ciliary body the approach 1 thr ugh the oculomotor

nerve with a synapse in the cil ary panglion The extrinsic eye muscles may be arranged in functional pairs (r) the me hal and lateral recti (2) the superior rectus and inferior oblique (1) the infer or rectus an i superior oblique. Close nuclear associat in is noted bety een the innervation of these pairs. The oculomotor nucleus contai cells of fibe s innervating the super or and inferior recti the n ferior oblique and the levator p lpebr upenorum the trochlearis nucleus send its fibers to the sperior obfique while the abducens nucleus sends fibers to both medial and late al ct the former by way of the oculomotor nerve Fo the orbicular s oculi the cells he in the oculomotor nucleus although the fibers are distributed by way of the facial nerve a fact expl ining the neurological fallacy of unilateral cerebral representation

Disturbance of the neuromuscular mechanism may cause strabismus pupillary change or a di turbance in accommodation depending upon the pa t damaged Damage t the oculomoto nerv cause external strabismus sociated with doping of the upper hd rotation of the ey dil tati n of the pupil loss of accommodate n and exophthalmos due to th un prosed forward push of Mueller's muscle and the muscle of Tenon's capsule Injury to the fourth cranial nerve causes deflection in do nward and out

ward movements of the eve while injury to the with cranial nerve causes internal strabismus

The Argyll Robertson pupil is due to a le ion in the superior colliculus since injury in e ther I the other two relay cent is the thalamus and the lateral geniculate bo ly would cause vi ual disturbance. Ac commodation being a purpos v act has a corneal center probably with the converging cent r in the frontal area and impulses may still reach the third nucleus from here

Forward bulging of the eye may be due to pares s or paralysis of the extrinsic muscles which tend to hold it back or to hypertonicity of the smooth muscle of Tenon's capsule and Mueller's muscl Since the superior cervical gangl n cont n the synapse for fibers to these smooth muscles the rationale of extirpation of the gan hon for ex

ophthalmos is apparent

arious association paths make for correlated movements and account for certain nathol me l signs The medial longitudinal fasciculus associates visual centers with motor nerve centers for m scles of the neck while the tecto pinal tract connects isual centers with motor nerve ce ters I the trunk makes for an equilibratory funct in of the visual apparatus and explains the path logy of Romberg a sign

Close connections between the visual relay cent and the vomiting center account for certain cases of n sickness while similar connections with vesti

bular centers explain vestibular nystagmus In the reting the rods out ide the fo ea are so ar ranged that many r ds connect with a ingle bipolar cell providing for augmentation of visual timuli h le in the loves the cones connect s gly with on or more b polar cells making for acu to of vi on Dilatation of the pupil in early pulmonary d ease may be explained on a ba s simil r to the ciliospinal reflex

The trigeminal n rve supply a sensory innervation to the eye (outside of the retina) Head ches o hital pain and neuralg a may b due to referred pains from sinus inf cti ne impacted molars al colar M L MASON M D abscesses etc

Finnoff W C Ch nges in th Eyes of R bbit
Foll wing ti e Injection of Dead Tub rele
Ba ill into th Common Carotid Artery Am J Obhth oza 3

Finnoff found that dead tubercle bacilli are capable of producing in animals ocular les ons which are similar clinically to those occurring after the injection of living bacilli into the arterial circulat in but slightly different in their micro cop c p cture and es entially different in th ir progress. Living bacilli produce severe and progress e les ons in the eye in ddition to pulmonary tuberculosis from which the animal die before the eye lesions run ther full course Dead bacilli produce cular I s ons which p ogre s to a certain stage pers at f r a variable l gth of tim and then gradually disappear leaving scars. The ocular lesions produced by dead bacilli were

1 Contraction of the pupil occurring before the third day

2 Diffuse intis on the second or third day This was mild and gradually sub ided

Rigid iritis which appeared on the fourth or fifth day and was characterized by an irregular radiating thickening of the iris stroma without caseation This gradually subsided

4 Tuberculous nodules on the iris The e were wally multiple They appeared bet een the usually multiple fourth and fourteenth day At first they were bro in but soon they became yellow and showed blood vessels on their surfaces

Atrophy This followed all types of initis but was mo t common after the nodular form It ap

peared after the third week

6 Early and late changes in the cornea early changes consisted in vascularity and hazi ness or complete opacity. The late changes con s sted in deposits infiltrates and sclerosing keratitis 7 Conjunctivitis This was moderate in most

cases and gradually subsided in a neek or ten days

8 Tubercles of the lids These occurred ten times and usually at the margin Beginning as small nodules they gradually enlarged and finally ruptured and produced ulcers The ulcers healed in from seven days to one month and caused contraction and deformity of the lid

9 Changes in the choroid These ere seen with the ophthalmoscope after the fourteenth day The tubercles began as faint round or oval yellows h areas which were poorly defined multiple and irregularly scattered o er the fundus Gradually they increased in size became clearly defined and after from six to nine weeks changed to a dirty yellow color Pigment granules were deposited over tubered s In the center of the tubercular areas atrophe ar as slowly appeared. These became d tincily elevated (ad anced ca eat on) Finally the atrophic area become glotening white and excavated The average course of the choroidal lesion vas fif teen weeks

10 Degeneration and di integrat on of the retina in front of the tub roles. In the terminal stage the entire choroid and retina w re de troved and re placed by so raissue

II Other lesions These which were een only occa ionally included detachment of the retina serous and cellular exudate in the vitreous tubercle of the optic nerve tubercle of the retina phthisis bulbs and panos thalmets

one of the animals injected ith dead bacillidie I from the effects of the injection before the le ions were healed and se eral were hving fifteen m nths aft r the in culation L L McCor M D

Ililgaren r II L Parin ud Disease I Silv J 11 9 4

The author reports the case of a man who was stru k in the eye by the tip of a cow s tail matted with tookle burrs Inflammation swelling and

plearation of the committee were followed by swelling of the cervical glands. The temperature was for a degrees F Complete subsidence of the condition occurred in ninety days

Hilgartner ascribes Parinaud's di ease to (1) in jury by a substance to which the organism is protein sensitive (2) the simultaneous introduction of an infectious agent which finds the activated tissues a favorable medium for growth and (3) the growth of the infecting agent in the lymphatic THOMAS D ALLEY II D system

EAR

Sonnenschein R Methods and Interpretation of the Fundamental Tests of Heating Inn Ot ! Rhi of & La , gol 19 4 xxxiii 423

One of the most important purposes of functional tests of hearing 1 the localization of impairment of hearing. The history of the case the pitch of the tinnitus the patient's occupation and the condition of the external ear the drum membrane the nasopharynx the nose and the pharynx must be deter mined

In mid lie ear involvement the low pitched tones are heard less distinctly than the high nitched tones te the lower tone limit is elevated. In a nerve lesion the high pitched sounds are heard less dis tinctly than the low pitched but if there is marked involvement both are heard poorly

With the Galton whistle and the monochord the h ghest tones in middle ear involvement are usually normal but in disease of the inner car they are

markedly reduced

In conduction impairment the Weber test is usually lateralized to the worse car a hile in inner ear di case it is usually lateralized to the better ear In middle ear disease the bone conduction is

usually found lengthened while in inner ear disease it is usually shortened.
With the Rinne test there is usually a negative

reaction in disease of the middle var and a positive reaction in disease of the inner ear

As a rule the drum membrane shows cloudiness

loss of luster thickening retraction or perforation in middle eat dis ase. In otosclerosis the tympanic membrane is often normal or is pink over the region of the promontory. In internal ear diseases the drum is usually normal but may show changes if there has been any middle ear d sease at any time JAMES C BRASNELL M D

hahn II The \ Ray as an Adjunct for the Treat

ment of Partial Dealness A Report of Tech nique ! Oll Rt | G Lay 1 1 1924 TIT

As an adjuvant to the usual otological procedures in partial dealness the author recommends small tay doses to the ear regardless of the under lying pathol gy Improvement in hearing and a decrease in the tinnitis or its disappearance are usually prompt and permanent. When a relapse occurs hearing is again restored by a few additional radiations

The treatment advocated is applied after all the cautious accepted methods of otology have been u ed and is given whether or not hearing has been improved by them The formula is as follows stabilized milliamperes 8 kilovolts (root mean square) so (about 4 in spark gap) filter enuivalent to 1 mm of aluminum dist nce 24 in time twelve seconds MAYFORD P WALTE M D

Chamberlin W B The Gradenico Symptom Complex Alfa te M J 1924 x 1 166

The Gradenico syndrome consists of (1) a purulent otitis media (2) severe pain referred to the temporal and parietal regions on the affected side and explained by Gradenigo as due to involvement of the casserian ganglion and (a) paralysis or paresis of the sixth or abducens herve on the same

Gradenigo divides the cases into three group

Those with the typ cal syndrome and no other complication

2 Those with the typical syndrome and in ad dition secondary symptoms such as second third or fourth nerve paralysis 3 Those evidently of a virulent type which first

present the classical syndrome but later devel p meningitis with a fatal termination Chamberlin reports four eases two of which he

longed to the first group and one each to the second

and third groups Three of the cases presented symptoms of paraly sis of the external rectus before the mastoid opera tion and one n esented them afterw d In all a profuse discharge of pus occurred du ng conval s cence from the mastoid operation R covery result ed in three cases with complete recovery from the external rectus paralys s as well. The one pat int who died was operated on during the incub tion

stage of a men ngitis Gradenigo tated that the syndrome of clinic l symptoms 1 the result of a circumscribed simple serous leptomeningitis localiz d about the tip of the pyramid and caused by the d ffusion of the infection in the tympanum The condition progresses along or existing natomical paths Perkins describ d these paths as follows

The infection may follow the ublabyrinthin route extending from the tympanum below the labyrinth and nternal aud tory meatus to the netrous tip

2 From the masto d antrum it my extend through the subarcuate fossa or petromastoid canal which passes inward beneath the superior sem er cular canal and reach a layer of c lls sometimes lying above the internal auditory in atus and thus arrive at the petrous tip

3 Or this po nt may be arrived at by way of the carot d canal access to which is obtained either by eroding the bone on the anter or tympanic vall or though one of the carotic tymp nic for min

which give passage to the carotid branches of the tympanic plexus 4 Finally the infection has been found in som

autopsies to be through a layer of cells ext nd ng along the eustachian tube thus passing from the

The invulnerability of the sixth nerve is due to its expos d cours Its basilar portion is approximately I in long

The paralysis is due probably to pressure produced by swell ng or cedema in Dorell s canal throu h The pain is explained by the proximity and con-

h ch the nerve nas s

tympenum to the petrous tip

sequent involvement of the gas man gan lion which lies in a depression on the anterior surface of the apex of the petr us portion of the temporal bone Because recovery has occurred in some-cas s in which the mastord was not operate j upon opinion is divided as to whether abducens paralysis in con-

nection with purplent otitis media without other signs of mastoid abscess is an indication for mastoid Whe ler and Mayboum are opposed to the performance of a mastord operation in every case

Perkins also was opposed t it at first but in 1920 stated that he favored it Chamberlin agrees with I erks a present opt son Chamberl n concludes his article with the follow

ing statements 1 The Gradenigo syndrome is sufficiently com mon to deserve the attention of every otol gist

2 The ophthalmolog; t should be continuously on his guard to see that external rectus paralysis of otitic origin is n t mistaken for the more frequent forms of abducens paralysis vith which he is more

famili r In cases of s th ner e paralysis associated with pain over the s de of the head and a discharge from th ear an e ly if not an immediate mastoid op ration should be done

4 Although the m stord operation with the free drainage it affords does not insure relief it is the best treatment known and les en the dangers of intra OTTO M R Tr M D cran al involvement

k lifer G F Primary Diphth in of th Middle 426

Lyg pigax The author reports a case of primary diphtheria of the middle ear and reviews the literature on the subject. His case was that of a 7 year-old child with sever earache t nderness of the mastoid high fever (1036 degrees F) rupt re of the drum a drty white Dus d scharge f om the ca which gave a pute cult r of diphther a b cilli a da high polym rpho n cle r leucocytos (40 600 80 per c nt pol) morph nuclears) From the drum perfo ation a whit h membrane protruded The subcutaneous administration of 30 too units of antitoxin and the dropping of antit in to the revery four hours caused the temp rat e and k cory te count to return t n mal decr sed th d h rge and resulted in th d apper no f the Al bs Loeffler baculta No

cultures could be obtained at any time from the nose and throat

The author s conclusions are the following

r Primary diphtheria of the middle ear is rare All suspicious dirty watery di charges from the ear should be examined microscopically

2 Antitorin in large do es is always indicated For the average sized child not fewer than 30 000 units should be given in a period of twelve hours Nothing else will reduce the temperature and stop the discharge promptly The antitoxin may be in stilled al o directly into the affected ear

3 The disease can be diagnosed positively only by a bacteriological examination of the discharge from the ear A biological test will differentiate the true klebs-Loeffler bacilli from the false ones

How the disease invades the middle ear without throat and nose manifestations is a problem yet to MANFORD R WALTZ M D

Mendel J H Acrifia ine and Neutral Acrifiavine Their History and Use in Aural Surgery

Lary 2 5 05 924 TXXIV 443 Acrifiavine is a crystalline substance soluble in water and alcohol and incompatible with eusol Dakin's solution chlorine antiseptics and phenol It was synthetically developed by Ehrlich in his in vestigation of aniline dyes by the introduction of chlorine or a halogen into the acridin yellow group (which greatly increases the bacterioidal activities of the group) and the subtraction of the methyl radicle CHatwhich has a tendency to decrease the germicidal

propert es of a group) When Ehrlich sattention was turned to other mat ters the investigation was continued by Browning

These investigators stated that the ideal antiseptic

kennaway Gulbranson and Thornton of Glasgow must meet five requirements I It must exert great potency against micro organisms in the presence of p ofein materials or

blood serum

2 It must not exert an inhibitory influence upon phagocytosis

3 It must not ha e an irritating action on living tis ues in general

4 It must exert a suitable stimulating effect upon connective tissue cells

5 When absorbed it must not be highly to ic to any specialized tissue

On the basis of his experience with the drug Mendel believes it fulfills these requirements especi ally in the strength usually recommended 1 1 000 in

normal salt solution

The method used in connection with mastoid wounds consists in packing the newly made and dried cavity with gauze drains which have been dipped into a 1 1 000 solution bringing the solution into contact with all surfaces placing a similar drain in the external canal and after cleaning drying and touching the stitches with iodine placing o er the incision a solution saturated sponge cut to fit the auncle

The points for and against the use of acriflavine may be summarized as follows

I It is a bright yellow dve which stains every thing with which it comes in contact With care however this objectionable feature can be overcome to a certain degree

Thirty days after their preparation the solu tions begin to lose their potency and must be dis carded

3 The due is more effective against all micro organisms than any other known anti eptic

4 It a absolutely non irritating and non toxic

and does not inhibit phagocy tosis s It does not stimulate the growth of granula

tion tissue but it lessens pus keeps the wound unusually clean and prevents the formation of exuberant granulations thereby promoting rapid 6 It 1 a fairly effective deodorant

7 Stitch abscess is rare in cases in which it is

used 8 It is of great value in otitis externa MANFORD R WALTZ M D

NOSE AND SINUSES

Cohen L Correcti e Rhinoplasty Some Reasons for Faulty Results A Olol Rh 1 & Lay e! 94 x u 342

Corrective rhinoplasty should never be attempted unless the nose is free from infection. In the author's opinion it should be done subcutaneously through incisions within the nose. The graft should be touched only with the bone forceps. If infection of the graft occurs external dramage is contra indicat ed as it will mar the cosmetic effect of the operation but if drainage can be establ shed the graft may be saved The author uses a copper nasal splint to keep the graft in place until union occurs

In discussing with the patient the benefits to be expected from the operation other facial features must be taken into consideration Faulty occlusion of the teeth with malposition of the chin will detract from an excellent result obtained in the nose

JAMES C BRASWELL M D

Hughes W & Sinusitis in Children Med J A 1 lia 9 4 5 pp 38

Hughes discusses the frequency of sinusitis in children and the importance of the chronic form with polypoidal degeneration of the antral mucosa without pus or mucus in the nose Most of hi twenty seven cases were of this type and in all except one the tonsils and adenoids had been removed be fore the patient was first seen

The symptoms are usually general in character such as a constantly recurring cold persist nt cough and readache but running and stuffiness of the nose asthma epistaxis bronchitis and otitis media are common

In this report only the antrum is considered The treatment requires the removal of all causes of nasal cong at n such as t nd and alore in Tie ling in of expect in textirent must be betermined from the enablered they throub cross linearized they throub cross linearized they throub cross linearized they are admit of it has a figure to the long, led well for me all the t nd a darken if it in a cut privated cases imprais n a suffix some think up to but not but the util the transit of the great contract and it at his understand the such as a first of the state of the contract of

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PHARYYX

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h seeing the bist is of the \r v and its action or glan lular structures a 1 specially hymph d to ue the auth r points o t that a pecific action en lymg ho i stru tures was noted earl This action s exerted on the cell dired ments with lo res. to e t the \ ray can ng them to dist I grate and dis as pe r nd decrea ing the size of the gland. The f a il and extrat a illar t s ue in the ne ghbuthood re pond to \ ray tr atm at as they are compose lof According to inve t gations male lymt ho i ti at the Rockef Her I stitute it is pocible to remo e all lymin id tis ne ithout inducing detectable ch nges in oth r organ In the case of the torsil the is n t 1 traffe if we accept I acm s his pothese that during chil shood the ton ils contribute to the e t blishment of immunits. Viegu te drain ge is in I cated rather than ster I zation

I ici i fistingu shed three ti pes of tons [(1) the hypo acti hypertrophic type ith minimal

bacterial activity evidenced by only light redden ing (a) the type suggesting bacterial activity but not a clinically established infection and (3) the type in which infection is clinically established. Tho of the first group are stimulated to activity by the V ray. The of othe second type are best treated conduct of a clinical the third group are tonal requir measures.

The author is of the opinion that \ ray treatment is indicated in the following ca e (1) those in which operation is refu ed (2) ca es of tonsils in the first two group (1) cases of patients past middle life with an arteriosclero is which might result in hamorrhage (4) cases of tonsils embedded in infected tissue in which operative removal may cause dissemination of infected emboli into the blood and lymph streams and (s) the cases of patient with chronic cardiac le sions Bright sidisea e diabetes exophthalmic goiter chorea rheumatism hæmonhilia asthma tubercu lo is status lymphaticus or any condition hich has lowered the general resi tance Intensively de crease I tonsils and tho e showing no improvement from \ ray therapy hould be remo ed

The author's technique consuits an treatments every week or ten days for eight reatment followed by obstration for from the treatment followed by obstration for from the treight received. In the training for the treatment of the patient I es prome with the head turned happly to the right of left and both sides arrived tailed at each treatment. The central ray pix se mito the side of the head, but posternor to the angle of the pan ob potentia is used. The X ps. f. multi-sim as too kinoidage (phere gap) and poem focal pot distance through a mm alumnum liter for the munities with the u of a curtual read daugh arm opening 5 cm in diameter at 15 cm from the target.

NECK

Colle F A The Morbidity of Fudemic Goiter

The mo t common f rm of go ter a ordination of colloid with ain ma th r it is treeted the two components changing the ge. The sime deficiency components changing the ge. The sime deficiency components changing the ge. The sime deficiency components changing the general collisions and the colloid many act also on the embryon I cell a an githern to form me it is old which constitute the admonstrate With the passage of time the III stated ment trends of crasses of that the ge of v a six has dim not be a sea of the trends of the season of the sea

The author analyzed joo so of steomatous or 1 with a bal metabol r te within normal limits. The tables had on the hod general to the tables had on the hod general about 11 time 1 to pre-ence of c fox wular about 11 time 1 to pre-ence of c fox wular about 11 time 1 to pre-ence of the word of assess and the rivo fithe 1 on the numl of assess and the rivo fithe 1 on the fither cases and control of the succession of the succes

Foss H L and Jackson J A The Relationship of Goiter to Mental Disorders 4m J M Sc 1924 clvn 724

Gotter is not especially common in the in ane even in a gotterous district. Its incidence in the State Hospital for th. Insune at. Danville. Punns Ivania is only a per cent.

Conversel, insanit;) extremely rare among the large number of goiter patients applying for treatment in a general ho pital in the same local it. In the latter there were no eases of true in sanity among 800 patients studied and the only mental disturbance was a mild excitient or a slight and transient mania which occurred in two cases.

There is apparently no definite relationship be tween gotter and insanity and usually nothing to in dicate thyrodectomy in the treatment of the unsue patient suffering from gotter unless the condition causes pressure. However operation may be necessity if there are accompaning evidences of true hyperthyrodism but the latter condition is very rate. Hipperthyrodism and hypothyrodism are unusual in the adult pointer patients of the Penns Isania in patients of the insane the majority of the gotters being the o-called multiple adenomations forms unaccompanied by systemic disturbances.

ARTHUR L SHREFFLER M D

legus V E The Mech nism of the Lacynu

After a study of the evolution of the latving the author suggests that the impress on gained from the literature that the latving it the organ of voice and has been evolve? to sub erre this function is erro arous its use for this jurpose being a subsidiary of several function.

The sampl type of larnne us a valve designed to guard the entines of the pulmonary air tract again the entines of ulstances other than air the art tends were collect to assess the active opening of the valve as the manuf for air increased and the crosed and it by mod cartilages were evolved to build up and strengthen the framework of the larnne. The man other forms phonation etc. which is the substraint of the substraint of the substraint of the tends of t

As the air requirement of animals varier the potton shape and sue of the larp in various programs and sue of the larp in various animals calling for an extreme amount of evidations of the opening of the larp in is surcease ed by variation on the length of the air tensols and the size of the difference of the content of the larp in itself also help a few for the convenients of the larp in itself also help a few for the convenients of the larp in itself also help a few for the convenients opposing of the plotts during exp r toor—the private and and partial closure curvulations are aided

As the lary in changed from a princitive condition one in which its open conditionally except during the act of deplution various structures were modified to ad in this act. The epiglottis and any equivalent field take part in the swallowing of liquid in that they help to form lateral food channels However when a 1 liss of food passes they assist that Ittle as in this process the entire muculature of the lary nx is brought into pive the glott is closed the Larrin is a judicial up to the base of the tongue and out of the way as much as possible and consideration of the state of the constitution of its attack more to the constitution of the state.

ment to the earthages of solution.

I studion of frieign bodies from the air tract is brought about \(\frac{1}{2}\) the act of cought, go so so eng in which a force feep ration is made with the glotus closed. Vorniting is preceded by air awallowing in which an in piratory effort is made with the vocal.

conts closed. Man and related animals with bills to adduct an I abduct their fore limbs have vocal cords and rentricular bands, but the stage of devel pment of these has no relation to the vocal accomplethments.

The function of the cords is to produce point e and nerall e intrathoracic pressures by acting in the capacity of valles. They thus assist in the production of a rigid thoracic wall the conduor unfer which add action of the fore limbs can be lest troduced or the danhar en can best peri male.

Ission like action.
The author does not does the mechanism of phonation except to say that the evidence of torn parative anatoms indicates that variations in the titch of the voice are brought about by contracts.

and relaxation of the there arytene d muscles.

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Hal tead A E and Caylor H D The Repair of Dural and Brain Defects by Free Fat and Fascial Transplants J Am M iss 9 4 lax 11 1337

Dural sub titutes must be strong and unyielding and capable of forming a tight union with the sur rounding dura They must not coalesce with the brain or leptomeninges and they must be viable Autoplastic substitutes are best. The most logical substitute i blood vessel wall but for autoplastic transplants the amount of this tissue available is too small Many tissues have been tried-skin peri osteum peritoneum omentum fat foreign bodies osteoperiosteal grafts fascia and combinations thereof Most of these form adhesions and many of Skin is difficult to sterilize them ar not viabl Autoplastic grafts of fat osteoperiosteal transplants obtained from the adjacent healthy skull and auto plastic grafts of fascia lata have given good results. The field must not be infected. The fascial trans. plant should be made one third larger than the de f ct to be clo ed It is not always necessary to suture the graft Fascia is strongly viable and although it is not well supply d with blood is not easily infected It is anatomically similar to dura and is always available and easily secured

The author reports four cases In Case 1 in which there was a sarcoma of the skull and dura mater dural repair was effected by means of free transplants of fascia and fat and the crant I defect closed with an ostroperiosteal transplant. In Case 2 a case of meningeal cyst following a compound comminuted skull fracture the cyst m mbrane was excised and the dural defect closed with a free graft of fascia and fat Cas a was a ca of c t of the brain in a bich the cast cavits was on ned and drained and then fill d with fat and f sens. In Case 4 there was a compound comminuted depressed fracture of the skull I ve ven s after th injury jacksonian epi I psy began kecov ry follo d th impl ntation of IRLE J MIRPH MD a fat and tascia graft

Andrew F Intracranial Suppuration of Otitie Origin 3f d J 1 f l 9 4 1 S pp 377

The vultor describes se cral helpful procedures in the nang men of exts and it du al infect on secondary to outice uppurate in Contrary togeneral teaching he usuall xpo the dura searching for an at dur l'absess of outice r.g. The she dest obt in good jew or the trigent and in ward over the pations especially cases in which he lack in he he in present. When thrombosed surus forms p it of the wall fan absess expoure it mue to a point to e the thrombos and bleeding

is controlled by packing. The thrombus is then raked out of the jugular bulb without ligation of the

Intradural infections both of the diffuse and of the localized type are best treated by prompt re moval of the source of infection and relief of the subtentorial pressure

Intracerebral abscesses are of two types 1e stalked and those at a distance The treatment of both requires (1) the prevention of meningeal in fection (2) the avoidance of manipulation that will produce ædema or bl eding within the cranium and (3) the prevention of medullary compression To prevent meningeal infection the abscess should be drained along its stalk whenever the is possible The alternative 1 to turn down a small dural flan and wait for adhesions to form about the meninges After the abscess has been found by probing through this wound all pos ible precautions should be taken to prevent the sudden escape of large amounts of pus Prob ng of the brain through the unopened dura is associated with great danger of hamorrhage and is therefore to be condemned

When the patient is evidently dying of bulbar compress on relief may be given by freels exposing the thin anterolateral cerebellar dura ie over the thereal sums in its descending part and upper knee the exposure being carried well behind the posterior border. In the presence of a hie labyrath the posterior of the presence of a hie labyrath the sums as far forward home anterior to the descending sums as far forward home parties of the word and the semicrocatic canals pass the with avoidance of the semicrocatic canals

Frank intracranial infection from laby ninthine sepsis by way of the eighth nerve and the ductus endolymphaticus is a constant danger. When a tapidly suppurating mastoid prevents waiting for the laby ninthine infection to become walled of the author performs the widest possible laby ninthectomy. WHILLIA PLANKACEES, M.D.

SPINAL CORD AND ITS COVERINGS

Shaw R C A Study of Intractable Pain Relati e to Rhizotomy and Spinal Section B (J S g 1924 648

Several general inferences have been drawn by the author from a group of patients subjected to dorsal not section for intractable pain. In a number of cases posterior rhutotimy, gave complete relief from p in o great all visuoin but in many instances section of the cervicotherate or thoracce posterior section of the cervicotherate or thoracce posterior section of the cervicotherate or thoracce posterior section of the cervicotherate or thoracce action in few cases that a loss of deep pressure sensation in few cases that a loss of deep pressure sensation in few cases that a loss of deep pressure sensation in few cases that a loss of deep pressure sensation in few cases the pain persuited after that and in other cases the pain persuited after the pressure of the pain persuited after the pressure of the pain persuited after the pressure of the pain persuited after the pressure of the painting of the

f any type of a mation. These clinical facts there is resuggest the existence of another afferent path

way for pain impulse

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LARE DAY MD

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myelotomy R lef e comtlex coel tions was breute. In tabes the relief was complite for a while but name t suelly r turne I at a new level after six or seven morths Lenche discouraged temporarily d con tinue I the operation but becau e of the inte se suffering of the se that ents his un fertaken it agun In ral cul tis and r uralma due t h per roster the re ult were e cellent if a uff cient number of THE W to secti me! In cases of local relp in due t control (n l) a neotla m radiculum et e great t ! I When the s mptoms are di section of the lateral tricts in the antenor part is I leate limit at o rad cotom. In c es el pura It gis with sphinet r turbances tran erse myel teny may be a in cases of a coll stores. t l ot i i in l atella t a lof people ral neuro t m or stimt r ct non! who the pan is of a severe superi cial type 1 in with cell magnifit the I tu b n es e ll for p tartert ! mpathectom note f oto a Wh in licated a heotomash ald be petl smelle so the mosph ae habit is developed In erithrom I let section of the anterior part f the lat r | truct only dec ca ed the lur t not the once I fully the es attat only to w that templeds In Hransy it mes It important t peel em the or per per t a bist as ers u less i tersent n ag ravates the con-

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PERIPHERAL NERVES

The Significance of the Double Hunter J I Innervation of Voluntary Muscle Illustrated by Reference to the Maintenance of ti e Posture of the Wing Md JA st 1 19 4

The author calls attention to the presence of non medullated and medullated nerve endings in muscle fibers a fact which has been the subject of con troversy for a number of years Th form r are thought to originate from the sympathetic system and the latter from the cerebrospinal nerve Sherrington s theories on deafferented muscle tonus both somatic and visceral are reviewed

Referring to Royle's work on normal spinal and decerebrated animal. Hunter states that the function of the sympathetic innervation of voluntary muscle is to maintain posture once assumed by fixing the muscle fibers at their new len th Cutting of the afferent supply consist in part in seve g the afferent 1 mb of a sympathetic ar and the efferent hmb of such an arc 1 made up of po t g nglionic non medullated nerve fibers th ch supply voluntary muscle

The differ nce between the deafferente I spec men and the sympathectomized muscle 1 that in the former the deep tendon reflexe are absent while in the latter they are pres nt though less exaggerated and without the shortening reaction. In the same way the parasympathet c fibe s to stitute the second innervating mechanism f hollow v cera and vasodilator fibers cause internittent d latation of blood vessels. In other o d. Hunter belie es that dual 1 nervat on 1 a general principle

When Hunter removed the cer icil ympathetic chan in a fowl the wing upo th t side vas found drooped in forty hie minutes and still remained drooped at the en l of five day

Lo L DIVIS MD

M uch t A Lat Paralysis f th Ulnn Nerve F llowing Fracture of th External Condyle of the limeru (Physist dau fbill lst desft ddit lihm fus) Bitrém Stdi 941 97

Acrording to Mouchet the stag n the patho genesis of late ulnar ner p alysis a (1) fracture of the e tern I condyle of th humer s infa cy or childhood (2) cub tus valgus due to the fractu e (3) local trauma nd f tigu The p raises my not devel puntils v nine eighteen twenty se en years or even lo ger afte the 1 stril t uma In one of Leriche s c ses t d d not or ur until after the to five) are and in one of Guibal's n t until afte forty four 3 ars

In the author's opinion the cubitus valgus is due to a disturbance of osteogenesis rather than the ascension of an unreduced condular fragment. The enitrochlear olecranon fos a 15 narros ed and partial It filled With Grégoire the author beheves that the ulnar nerve is injured and compressed against the unner edge of the entrochlear olecranon fos a as the result of the cubitus valou when the elbow i in ex tension and the nerve is stretch if

The methods of treating the paralysi include

Hygenic and electrical treatment. This is suitable in certain mild forms

2 Local surgical freeing of the nerve Mouchet regards the as insufficient

3 Hollowing out and enlargement of the entroch lear olecranon for a This ha not given the hoped for re ults Tran no ation of the ulnar nerve to the anterior.

surface of the elbow as done by Gregoire Roux Broca \ outhet Leclerc Miller and others In case re examined after this operation the ulnar nerve was painful t hen the elbow was in extension Subcuneiform osteotoms of the humerus Thi

procedure wa suggested by the author particularly to relieve the cubitus valgus which causes the paraly Usthout freeing of the ulnar nerve this method in three cases resulted in immediate cessation of the pain and very rapid amelioration of the paralysi The operative technique is simple and a padded bandage appl ed with the elbow in acute flexion is sufficient to obta n union in good position Recently both Sencert and Guibal have reported a case cured by the method

The author does not deny that good result can be obtained by transposing the ulnar nerve to the anter or side of the elbow but emphasizes that surgical treatment should be directed chiefly toward the valgu deformity correction of which a necessary for recovery f om the paralys:

WALT R C BURKET M D

SYMPATHETIC NERVES

Wenckebach K F Angina P ctoris and the Pos bilitles of it Su gical Relief B ! If I 9 4 8 g

Anging perton is a di ease characte ized by pain of a definit type and typical location which come on in attacks

The chronic typ of angina is the mo t common form but the diseas is comparati ely rare. The diagno 1 can be made from the patient s sen ations the locat on of the pun the circum tances sur ound ng the ons t of an attack absence of dy procea the eff ct of nitrates and the course of the condition

Sensations terrifying to the patient are those of a severe thest pres ure a s asc of constriction or stress and a tearing pi rcing or burning pain. The p a is n ver the stabbing pain complained of by n urot c persons

The p n is usually located over the sternum near the manubr um \s a rule it radiates into the back

opposite the painful point on the front of chest thence to the left shoulder and thence down the inner aspect of the left arm to the wrist or little fineer

Whatever conditions tend to attimulate the heart action or raile the blood pressure may lead to an attack of angina

The all ence of dyspn a in tru angin sugge ts

that feart muscle wakness is not a cau e. The favorable action of ritrit's is practically diagnosti all e in no oth r con his it least is drug

act with such a marke leffect

From nent curve at r r lut th patient rarely
les in the first attack. Death occurs a ry often
with the signs of tay all heart failure rather than

these of angina.

The second form of angina pectors, which is rare though to interest from for nor embolism.

The second possible reservoirs have a second here.

The subject is usually a person who was previously well or had few signs of criduc is ase. They evintence junistiles had not subject to the attypical than that of the mercurian is not argued than that of the mercurian is not argued than that of the mercurian is not argued.

tatlologi al a nitions of the he rt muscle (2) der es of the country teen s and (3) i sea es of the tous mal tatt of the north

C n littons which ten l to 1 m m h the heart out jut such as it highed auricular fit llation are inconsistent with anginal falo

Three forms of coronary disease commonly asso crited with anginal pain are (1) embolish (2) chro ic sclerosis or syphilitic narrowin of the vess is an i (1) vasomotor spasm | Indoubted v th first of these can produce very severe attacks of t in Thylogenetically the arteries are direct out war I extensions of the first portion of the zorta a.d. like that yessel may be the starting rount of the tain That chronic sclerosis or syphilitic narro ing of the coronary vessels may be the cause of angua at oe ra to the author doubtful it a doubtful aso whith r vasc motor spasm of these arteries is a c use since the presence of vasomothe nerves in the h art has not been lere netrated. Adrenalia insect e I into the circulation produces a vasodilatation of the aorta and coronary arteries presumably through at a crea e in the arterial tension

at 1 create in the arterial tension.

If of the peculiar features, I angina pectons are east 1 ned best by disease of the proximal portion of the aort 1 act 17 which cause greater fill, gof the aorta and increase this stress in its walls will give in c to 1 un so long as the heart i equal to the first stress that

Surgical intervention is 3 stifiable in spie of its triks. Section of the depressor nerve of the bear as branch of the varies has given lastin red of from anginal attacks. The relation value of this operation as compared with section of the sympathetic triusk is not to be different and

Mutther P / N r Ex MD

SURGERY OF THE CHEST

TRACHEA LUNGS AND PLEURA

Caussade G Rosenthal G and Surmont J A
Case of Pulmonary Cangrene Treated by
Tracheofistulization (Un cas de gangrêne pul
m 1 trat ép r la trachéo-fistulis tio) B li et
mém S méd d hôp de Pa 924 3 x 31 410

The case reported was that of a 33 year-old man Eight and a half years before the patient was seen by the authors he began to have attacks of coughing associated with chills and the expectoration of thick sputum. During a period of three years the condition progressed with periods of remission to a bilateral pulmonary gangrene complicating bronchiecta is During a period of eight years various treatments were tried without result-intratracheal injections of 5 c cm of 1 10 gomenoi for ten days by the supraglottal route autogenous vaccine 30 c cm of anti gangrene serum for six consecutive days 20 drops of tincture of garlic for sixteen consecutive days and o 15 gm of arsenobenzol every four days for thirty days Pneumothorax vas contra indicated because the les on was bilateral. The cough foetid expectoration and pain in the lower part of the right side of the chest increased and the general condition became extremely poor The syndrome included emaciation sentic fever albuminuma weakness diarrhora ordema of the legs loss of appetite pal p tat on of the heart a rapid pulse clubbing of the hngers and enlargement of the h er and spleen

Under local anesthesus tracheofstulization with the introduction of an inducibing silver cannula re sembling a tra heatomy tube was done in order to sembling a tra heatomy tube was done in order to make it possible to introduce the drugs directly into the numerous biliteral bronchectases and associated agrigerous extures to maintain the gangrenous areas under the constant action of suitable drugs and to render unnecessary the repeated traumata produced by supragloit c and inf agloitu injections. The small suc of the cannula which was usually the suitable stopper left a sufficiently permeable tra heat the support of the sufficient of the sufficient of the support of the sufficient of the

The traches we always annesthetized for the incitons by all in the successive njections of 2 cm of a percent who is not necessive njections of 2 cm of a percent who is necessary and in the same as sometimes did ted into as injections, given all interval of from two to the minute. So then the traches ten incet tolerant over the three minute periods without an arshitezization. Later at was found an antage to incorpo atte the analythetic a thread The argues of its world in turn were morned. Mothern oil.

various oils used in turn were gomenol violorm oil and lipodol. At first the quantity injected was 5 or 6 c.cm but during the last fifte n d ys it was varied from 20 to 40 c cm.

The mjections were made every two to four days. They did not cause dispined marked tachynnen or hemoptysis. Sometimes the oils were mixed for example one part violorm oil to three parts lipodol. N ray examination made immediately after an injection of 15, cc m of lipodol revealed the oil in the bronchial dilatations as small opaque islands. At the end of fortive-gibt hours there had dissumers to the dilatation of the control of the dilatation of the control of the co

The treatment was the man disspected. The treatment was unimately very well tolerated but in the beginning and the man dealers and the treatment was the man dealers and the treatment was the treatment of the treatment and the treatment was the man dealers and the treatment was the man dealers and to man downing sepectily, when the cannula store was tenoved. In time these phenomena ceased the foul aput un decreased from 900 to 250 c cm the foul aput un decreased from 900 to 250 c cm the lever fell the patient's weight increased the general lever fell the patient's weight increased the general lever fell the patient's weight increased the general fear of the sput undecreased and the bacterial flora of the sput undecreased and the bacterial flora of the sput undecreased from 900 to 250 cm the sput

When the cannula was removed at the end of one month the benefits of the tracheofistulization per sisted for twelve days but the condition then again became poor and death o curred at the end of two months

In conclusion the authors state that the method should be tried in suitable cases. It is indicated in cases of bilateral pulmonary bronchiectasis with sclerosis and cachexia in which the surfaces to be treated are accessible only by ay of the trachea Only oil injections should be used

WALT R C BURKET M D

Guibal L The Surgical Treatment of Chronic Bronchial Bilatation Four Cases (Sur 1 tatem at d la dl 1 at n bron house ch ornque quair ber ti ns pe so lie) B li et mem Soc naid d 1924 131

The operative procedures used in the treatment of bronchiectasis are (1) a tif cial pneumothorax for compression of the lung (2) pneumotomy for d ain age of the cavities and (3) excision of the li eased fung tissue by lobectomy or pneumectomy

The choice of operation depen is upon the extent and site of the disease. Violateral lesson is not suitable for operative treatment. A unit teral pluntobar lesson sometimes may be smellorated but cannot be cured. In the unitobar forms especially those of the left lower lobe e cellent results are obtaine I from

operation The filated bronchs are submerged in sclerotic ti sue deprive t of vitality are covered by many lavers of cells which are marke ily changed in chronic inflammation and in many areas resemble elidermis and are complicated by numerous di cerneult Hence bronchiecta is is not curable by pressure or framage. The common failure of opera tions other than complete extirpation by lobectomy is explained by the microscopic anatomy lobectomy is in licated when the bisease is limited to a single lower lobe. It is advisable also when only a part of a lobe is affected as it is much simpler and safer than partial resection. In bronchiectasis limite I to the upper lobe where section is serious Tuffier's procedure of stripping away the parietal pleura with permanent compre sion of the lung may be substitute! Because of the ligh mortality pneumectomy of an entire dis ase I lung should te aban loned for pallintine collap e therapy by pneumotherax or theracoplasts

Artical pneumothors is usually easy toestablish and when the plear as free compresses the lung to the depth. When the union is total or the lung at the easy to the depth. When the union is total or the lung at the easy to the depth of the easy to

Extrapleural thoracotoms (the procedure of triedrich or S untruch) collapses the lung per manently but less completels than pneumothorac such has a consolidate and rible mortelity. It never cures the bronchicetasis but may amediorate it. The suther reports a two of bronchects as the left lower [b in which a Bruver Fire fired subtotal thoracophists) gave a negative ris it in all latch te

suited from brain abase 5
I neumotomy is suitable only for the drain go of large bronchal distations which are few in number and cause retention with seps so a rate complicated by absess or gangtene. Only temporary amelioration results; rolonged drainage never leads to exestrication of the pockets. If healing occurs the condition was simple able so not bronchectass. When the bronch ectases are numerous small and sheedar vith stricturf of outler pneumotomy is

Juli The dangers of pneurotomy are hamoring subcutaneous emphysems, and gangerne of the thoracte wall which becomes infected by the bronch extented regarding. The author reports a case in which pneumotomy performed for a middle night lobe bronchiectasis with three large cavit es me.

followed by fatal massive gangrene of the thest wall. Lobectomy for unilobar bronchiectasis may be tone cither in one stage (Lilienthal) or in two stages (Robinson) Lilienthal opens the entire seventh intercostal space and preads the ribs with if necessary with paravertebral section of two or three ribs He then frees the diseased labe ties the pedicl with silk brings the ribs together and establishes depen I at drainage. The dangers of lobectomy are secondary infection of the pleura and pericardium loosening of the pedicle I gature with hemorrhare suffocating I neumothorax shock mediastinal em physema and bronchoppeumonia. In the author's opinion a two-stage lobectoms is more prudent la the first or extrapleural stage performed under regional anasthesia the sixth seventh, and righth ribs are resected from behin I in the azillary line and the intercostal pe licles are ligated. The U shaped flap is then replaced Eight days later the second or intrapleural stage of the operation is performed

Regional anasthesia is found in ufficient Must surgeons use a differential pressure apparatus with general anxisthesia but the suppresses the rough reflex an I increases the danger of a phyxa when the pus crupts into a large bronchus damag the pleural meision or the fr eing of the lobe Tu Fer huettner Duyal and others have reported deaths from asphy ria on the table. Therefore Guidal per forms lobectoms under pinal anxisthesia. The patient does not suffer the cough reflex is present so that from 150 to 200 gm of bus may be expelled at one time when the lobe is freed and shock ! absent The U shaped flap is lifted the pleuta is incised along the quadrilateral I ne of the nb is section the lobe is freed adhesions of the h alth, lung are protected or repaired if they are injured the pedicle is clamped and the lob is divided at a considerable distance from the clamp The clamp becomes spontaneously detached and is remo ed b about the minth d y Lobectomy should never be done on a free pleura Adhes one I mit the pleural infection and decrease the danger of mechanical disturba c s and of pneumothor a with ti umatic apnæa If adhe ions are absent their formation should be sumulated by means of sodice and gauge and operation should be de ... ed . ght days longer

The ution reports a case of left lower lobe took town patterned in to astiget. Morphuse and adopted many patterned in the stages Morphuse and adopted and the stages of the stages and the stages and the stages and the stages and the pattern laying on his right stage the seventh eighth minh and truth ribs were resected under the United Stages and the stages and the stages and the the spectral of the stages and after the operation does also all host to he areas after the operation does also all host to he areas after the operation does also all host to he areas.

Today two year after the operation he has only a shight cough a d occasional expectoration. The author re rets that he did not treat his two other ta es of unilobar bronchiectasis by lobectomy WALTER C BURKET MID

Zadek I Combined Surgical Treatment of Pul monary Tuberculosis Section of the Phrenic Nerve and Pneumothorax (Zu komb mert n chirurgi ben B h ndlung der Lunge t berkufo e Ph enicue re eu d'Pne motho x) M d Al 19 3 17 10 4

For the treatment of pulmonary tuberculosis the author recommends combining section of the phrenic nerve with pneumothorax or thoracoplasty. If exc saive pressure is avoid d as is now always the case the paralyzed diaphragm does not relax that is does not sink when ga is injected and the lung i further compressed even when there is inspiratory or ex tiratory positive pressure in the pleural space and when there are hand like adhesions or not too ex tensive flat adhesions. On the right side the advance of the liver a solid organ tends to nercase the effect while on the left's de the stomach is rebeved hereas when pneumothorax is done alone gastric function frequently compromised by the sinking of the ha ph agm this cau ng at least disagreeable sensations with loss of appetite

When only a rela ation pneumothorax i pos ible on account of adhesions the e may b a transitors or persi tent lowering of the diaphragm on the repeated injection of gas. This may occur even when there are indurations or mult ple flat adhesions or when the lung is su pended by apical and basal adhes ons. It is particularly apt to be the case on the left side especially when in the presence of adhes one in the reg on of the upper lobe the pulmonary vesicle presses upon the diaphragm E en in such cases however the influence of the partial pneumotherax on the further course of the disease is almost al vays distinctly fa orable and the associated section of the phrenic nerve affords the free pl v which is so desirable as the mediastinum is protected against excessive pressure by relaxation of the diaphragm

Since the uthor has been using the combined metho i of treatment i e has seen no case of d splac ment of the media tinum by the preumotho ax the high posit on of the diaphr am usually results in a considerable diminution in the olume of the pleural pace so that the amount of gas n cessary for faling is always less the nin simple preumothorax The paralysis of the phreric verve and consequent change in the espiration re ult in a decrease of th movement on the d s ased side v th slower absorp t on of the ga introduced

The author has used atmospheric air exclusively for many years. The intervals between injections may be from a quarter to a th rd longer than when pneumotherax alone is employed and the quantity of gas may be considerably dim a shed. The appear ance of n exudate is much less frequent with the combined tr atment than w the mple pneumothorax

The operation itself is slight and may always be carried out under local anæsthesia Its disadi an tages when compared with its advantages are too slight to be worthy of consideration The paralyzing of the diaphragm may be undertaken at any stage of the preumotherar but in central it is best to section the phrenic nerve before e tablishing the pneu mathoray

In conclusion the author dra s attention to the psychological and social aspects of the method Many patients finding themselves unable to con tipue treatment by pneumothorax over the long period necessary give it up too early with dis astrous results. The combined treatment is less bur densome to those who have become able to take un an occupation as it necessitates less frequent in terruption of their work. Moreover if the patient di continues the treatment the dangers attendant on too early expansion of the lung are lessened by the paralysis of the diaphraum which once established is permanent CREITS (Z)

Bronfin I D Pitfalls in the Diagnosis of Primary Carcinoma of the Lune Col r do M d to a vi

Cases of pulmonary malignancy are frequently ad mitted to sanitoria with the diagnosi of tuberculosis From a review of the literature the conclusion is drawn that primary pulmonary carcinoma is in creasing. This may be due to improved methods of diagnosis of to an increase in respiratory infections That tuberculosis and pneumocomosis are etiological factors in malignancy of the lung is questionable

Grossly there are three types of pulmonary carcinoma the nodular the infiltrating and the miliary. The most common symptoms are dyspnera pain in the chest and blood tinged sputiers but these are vague The physical find ngs are also in def ite The laboratory is of I tile aid in the diagno sis Negative sputum examinations do not exclude tuberculosis Typical cancer cells are tarely found In the roentgenogram carcinoma produc s homo geneous shadon whi h are wedg shaped with the apex pointing toward the hilum and surrounded by a hazy zone The presence of scattered nodules of varying size in a ly part of the lung vithout a sur rounding zone of infiammation indicates metastatic malignancy

The author cites three cas which illustrate the more common errors in diagnos 5. In th. first which was d agnosed as aortic aneu ism autops; showed an adenocarcinoma in the upper lobe of the left lung The second case was dag osed as pulmonary tuberculo s The third vas a metastatic adeno carcinoma secondary to a cerebellopontile angle tumor which had been diagnosed a pulmonary tub reulosi

The following conclusions are drawn

I Primary carcinoma of the lung is more com mon than 19 generally believed 2 Any h o ic i flammatory condition may be

an incit ng f ctor

3 Influenza may be a factor responsible for the increased incidence of the disease

4 There is no symptom or sign characteristic of the disease in the early stages

5 In doubtful cases malignancy should be sus pected when d stinct physical signs of pulmonary tuberculosis are absent MERIE H HOON M D

The author reports upon seventy cases of acute empyema in children. The comparative rarily of empyema in children The comparative rarily of empyema in childhood is indicated by the fact that the condition was found in only fifteen of every 1 con surgical cases in the series studied. The incidence of empyema follo ing acute lung infections was as follows after lobar pneumonia fifteen cases 2 after cent after bronchepneumonia thirty eight cases 54 per cent and after influenzal pneumonia seventeen cases 24 per cases 54 per cent.

The higher incidence of the condition following bronchopneumona is explained by the facts that this type of pneumona affect the debilitate that that type of pneumona affect the debilitate that and that as the process is diffuse and the barriers a cless complete than in the other types of pneumona there is greater opportunity for the infection to extend to the surface and esserable to the fis were

here empyema usually begins

Bacteriological study of the seventy cases re viewed revealed the pneumocorcus in fifty three cases and the streptocorcus in seventeen. The type of the infecting organism is intimately related to the ultimate prognosis as in the fifty three pneumococ cus cases the average mortality was 6 per cent while in the se enter streptococcus cases it was 24 per

The treatment must be has d on (1) the general condition (2) the type of infecting organism and (3) the presence or absence of adhesions between the visceral and pa jetal pleuræ. The presence of adhesions can usually be determined by X ray nation but as in a certain group of cases this is in conclusive manometer readings of the intrapleural tension are more satisfactory Cases of empyema m y be divided into (1) those in which the effusion is localized by surrounding adhes one and the organism usually p esent is the pneumococcus and (2) those in which the effusio is widely di tributed because of th comparati e b ence of adhes ons and the common infecting o ganism is the strep tococcus These two groups must be treated by different methods. In cases of Group 1 Fras r opens freely into the infected pleural cavity either by rib resection or by intercostal thoracotomy and effects thorough evacuation of the contents Dus and fibrin He then establi hes closed dr inage by intro ducing a small tube to the most dependent part of the cauty and closes the original wound completely The end of the dramage tube is placed in a vessel containing a weak ntiseptic solution. The advan tages of the method a c that it pe mits full exposu e

of the cavity thorough cleansing of the interior free dependent drainage and gradual disappearance of the pneumothorax The original wound usually heals by first intention The drainage tube is kept in place for from fourteen to twenty one days.

For cases of Group 2 without adlesson between the visceral and panetal pleture Frare; indows aspiration for four or five days until adhesions have formed. Prevous to the formation of adhesions opening of the chest is attended with considerable danger of massive collapse. After the formation of adhesions the procedure and the after treatment are the same as in cases of Group 7. In conclusion the author slates that he does not approve of the we found that the side of the irrigation of serious cardial that they are for the irrigation of serious cardial that they are found that they are for the irrigation of the control of the control that the principle is not indeptable for the irrigation of the control o

SHIRLEY C LYO'S M'D

ESOPHAGUS AND MEDIASTINUM

Souttar II S A Method of Intubating the Exophagus for Malignant Stricture B ! V J 19 4 1 82

In cases of esophageal cancer dysphagas us a midcation for immediate nutbation as it may be followed suddenly by total obstruction. The author has successfully treated several cases in who that obstruction of liquids had been present for three four days. As the metastass of esophageal cance occurs also by and late Souttar considers obstruction the most diagnessis factor until the growth perforates the mediastinum the pleura a bronchus or a large blood vessed.

To releve obstruction with its fatal consequences after hie metal tube is inserted through the structure to canalize or initiable the obstruction. This tube is a close spiral of German sile or war expanded at the upper end. It is a tremely flexible incompress bels and very light and occupies intile space. Food does not athere to at and if it is gilded, the metal foces not turn black. It is made in three uses The largest is 3 un long by 10 mm in diameter and the smallest 3 etc. In long by 6 mm in diameter and the smallest 3 etc. In long by 6 mm in diameter.

The tube is morried through the except weeps of the tube is the strictic fast been altered solve to 8 or 1 mer. The strictic fast been altered solve to 8 or 1 mer. The strictic fast been as a guide for the strictic server as a guide for the or 1 mer. The postun of the tube of poper size. The postun of the tube is vertical immediately by means of the cosphagoscope and later by means of the \(\text{Ti}\) a slightly been tube may be placed to a cardiac stricture but the stomach will expel a straight tube from the card ac orfice

The tube is well retained does not cause ulcration of the exophageal wall and may be left in place indefinitely. If it becomes displaced it may be replaced readily. The patient is not conscious of its presence is abe to swallow properly matricate food rapidly regains strength and general health and is completely releved of disturbances caused by obstruction A patient admitted to the hospital in extremss was discharged forty eight hours after in tubation able to swallow easily and appearing much better

The results of this treatment have far exceeded expectations. The author prefers the method to gastrostomy or the use of Symond's tubes or Hill's probe to maintain the lumen of a dilated stricture. WALTER CREEKET M.D.

Quick D S me Considerations in the Treatm nt of Carcinoma of the Esophagus Am J R 12 of 1924 x 383

Up to the present time carcinoma of the exsopha gus has been fatal in practically every case. The histologic type of the growth indicates that it is extremely resistant to e ery form of treatment even when it is situited in a most accessible location. Squamous cell carcinoma of the exsophagus is particularly formulable.

A diagnosis of malignant disease of the osophagus is practically never made before the growth has extended beyond the osophageal wall. The initial symptom is usually dysphagia. This is due either to constriction of the lumen by an infiltrating annular growth or to occlusion by a bulky papillary neoplasm.

Ewing calls attention to the mognities of structure of the esophageal muous and to the canals extending into the submuous and even to the muscular coat which are due to incomplete separation of the exophagus and traches at an early stage of emtryonic declopment. It is probable that the disease frequently originates in these canals and is well than the complete of the canals and is well subject to the the muons.

The p esence of dysphagia with or without any of the later symptoms (pain in the back cough hæmoptysis etc) or the presence of the later symp toms even without dysphagia should be regarded as an indication for an immediate roentgen ex amination If the roentgen examination suggests an obstruction the next step should be a direct examination with the esophagoscope If the obstruction is due to carcinoma the neoplasm can readily be recognized in the gross but a section should be taken for microscopic examination Some times a smaller instrument can be passed through the stricture to determine its lower limit and its relations to the esophageal wall throughout the obstruction is due to external pressure valuable information can be obtained as to its origin. The author has examined cases showing roentgen evi dence of probable resorbageal carcinoma which proved ultimately to be an angurism of the aorta partial calcification of the aortic arch a new growth of the substernal thyroid an early mediastinal lymphosarcoma or cardiospasm. He has al o taken sections from growths at the lower end of the resorbagus which proved to be adenocarcinoma this indicating that the resophageal involvement was secondary to a primary gastric cancer

The treatment of carentoma of the esophagus can be only palliative. The best results are obtained by combaining an early gastrostomy by the Janeway method with e ternal radiation given preferably with high voltage roentigen rays. The intra esoph ageal application of radium preferably in small repeated doses is indicated to control ulceration and local bleeding but has title influence on the progress of the progression of the state of the progression of the surrounding to some with concequent swelling of the surrounding to some with concequent with sloughing which tends to increase rather them relieve the obstruction June 1. Drisk MD Pins MD.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Farr R E Pneumoperitoneum as an Aid in th D agnosis of Hernia J 4m W fss 1924 L vx I 4

Pneumoperitoneum i of valu in rendering visible the contents of a hermal six and showing their nature reducib lity adherence size and shape. It reveal also potential hermic that is patency of the funi ular process without actual protrus on. The applicability of this procedure in industrial surgery is suggested. W Tomursawi VI D

Cooke A Lympl aticostomy in Peritonitis B tM J 0 4 1 48

It has been suggested that opening and draining the thoract duet may ass't surgical measures in serious cases of general pritionitis. Costain went for to prove that the chief cuise of the tozemia in peritonitis is the fip of to it lymph into the lift subclavian vein. The author peritoris acase of general peritonitis following peritorit on of the appendix The pre-op rature diagnosis was acute abdomen. The similar time was acutely indired and distincted and as small amount of pus was found. The tended and a small amount of pus was found The appendix was removed and the abdomen clot of the control of the pre-open small amount of pus was found the appendix was removed and the abdomen clot of the properties of the control of the properties of th

On the first day afte: the operation the patients, condition is a work or so. On the furth day the distention was decreasing and there was a consider she distantion was decreasing and there was a considerable distance of the fer me hence. On the eighth day the distention had disapper red. A distance of pure 5 om the abdominal wound was then follo: d by a sudden diminustron in the discharge of the first part of the distance of the first part of the firs

GASTRO INTESTINAL TRACT Sur LW Pyloric Hype tr phy in Hypertr phic

Sur L W Pyloric Hype tr phy in Hypertr ph Pyloric Stenosis Am J D Ck ld 9 4 x 668

A number of nv stigators doubt the oc urrence fan increase in the muscle layer in cases of hyper trophic pyloric stenosis in spite of the fact that macroscopic eximinati n of the pyloris accurate measurements of the dameter of th muscularis and cytologic study of the mu cle cells and th nuclei tend to prove the presence of hypertrophy in stenosis

Sauer has attempted to fu n sh dd tion I proof of hypertrophy Wax models were prepared of the musculate of the polorus of two minutes of the une set approximately the same that weight and practically the same age at the time of duth a comparative study of these t o war models he of that the lumin of the normal control model has somewhat funge shaped while that of the stems model resembled the letter \times The plane of the lumen of the control model was homeant with that in the stemosis model was horizontal vertical and horizontal

The fact that the wax model of the normal muscular; weighed 3 000 gm and that of the stenosis weighed 6 0,0 gm is regarded by the author as further evidence of a genume and marked hyper tropby of the muscularis 10m % verze MD

Willerding H J Tuberculo i of the Stomach (Uebe d tub kuloe e Erkr ku g d M gr) ir h f h n Chr 9 4 vr 109

The author reports seven cases of tuberculous of the stomach—one in which the condition was found at operation and six in which it was a decreed at autopsy. The lesser curvature was affected in cases and the fundus in one. Tuberculous construction in the state of the cases the condition with the rewer as the ulterative type and in two of the hypertrophet per In none of the six in which it was discovered autopsy was its presence sign ted by the chinary of the condition of the six in which it is a discovered the condition of the six in which it is a discovered the condition of the six in which it is a discovered the condition of the six in which it is a discovered the condition of the six in which is a six in the condition of the six in the condition of the discover was reversely the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the discover was reversely considered the condition of the condit

To date ten similar cases have be n reported in the literature S nee in a lag enumber of it as of resection of the stomach a m croscop examination so omitted the author believes that some of the asses of supposed carrioman of the pylorus in with resection gave e cellent results vers in re lity tases of s strict tolerculosis.

Rendich R A and Connors J F A Study of the Pressure Hour Glass o Cascade Stomach It Natural and E perimental Production with Case Repo t S f Gy & 606st 19 4 xxx

The te ms pressure hour glass and cascade have been applied to the gastric deformty in which the posterior wall of the parts and ca forms a defait pouch and becomes distended before the gastric to tents desce d to the lower pole and the rest of the stomach falls from the overfil w of this pouch

The pressure hour glass stomach cau es a group of symptoms which are more characteristic than the of ny other abnormality of the gastro westimal tract (mplaitismed of as need distress the

lateral and posterior portion of the left hyperchion drum. In some cases this is described as pressure and in others as distention. The sensation is continuous for a time age, reasted by constitution and relieved by the equision of flatus or the exacuation of colonic contents. It is due to the distention-regarspience decure. Afternish the distention-regarspience drum after the common and cardinar palipation may never the common and cardinar palipation may never the common and cardinar palipation may

The authors experiments and investigations on the cause of cascade stomach indicate that the de formity is the result of retrogastric pressure which causes for a red displacement of the mobile portion of the vertical arm of the stomach from the firml fixed card a The source of such pressure is usually the distended splenic ferure. The condition occurs molephoneously of any organic leason of the almentary of the condition of the condition occurs.

Since the \tay appearance of the gastric de formit simulates that of the true hour glass stomach and since the cause is pressure the term pressure hour glass stomach is suggested as most descriptive

The condition represents a definite clinical entity.

The treatment should be directed to the colon rather than the stomach

How we A. McKnohr M.D.

It i becoming more generally recognized that ideer is due to more than one factor. A lesion of the stomach is far more senious than a lesion of the duodenum because it is less certain to be diagnosed it has a greater tradency to undergo carcinomatous changes and it requires more complicated surgery lor its raiq call treatment

Mrcho v a theory attributing ulcer of the stomach to occlusion of one of the gastric arteries is proved incorrect by the free anastomosis of the artery which precludes the possibility of the formation of an embolus sufficient to cause the local anemia heces sary for ulceration or erosion. Rekitansky was the thaf advocate of the theory that ulcer is due to a distribunce in the venous circulation which favors intestinal hermorrhage affects the mucous and submitted and the state of th

The theory attr buting the lesson to infection has been elaborated and consistingly proved by the research of Rosenow Clinical experience has shown that there is a very large number of cases in which the focus responsible for an ulter is situated in the appendix Rosenow a demonstration of the elective affinity of streptococci is further confirmation of the infection theory.

It is probable that hyperacidity usually precedes the ulter and prepares the tissues for the action of whatever a condary factors may be involved in the pathog nes a of the chronic lesion

The outstanding symptoms of ulcer are a burning gnawing sticking or colicky pain which occurs at

rather regular intervals after meals is always located in the epigastrum often radiates and is frequently relieved by food or alkah. The relation of the pain to the ingestion of food may help in the localization of the lesion. According to Mos inhan the sequence food comfort pain constitueller while the sequence food comfort pain measurements of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence and attacks and the siste of well being between them are characteristic of peptic ulter. A negative N-ray examination is not reliable when a positive history is given

Gastric ulcer is more difficult to diagnose than duodenal ulcer. The chief simptoms and signs of gastric ulcer are pain hematemess and vomiting in duodenal ulcer, the blood lost is more apt to appear in the stools and hyperchlorhy driz is more ommon. An ulcer that cannot be demonstrated at operation by touch and sight is not an ulcer.

Medical treatment cannot cure chronic ulcer. The reason is evident when an exci ed ulcer is in spected. Very often there is an associated appendicities or cholecy status, which renders medical treat

ment even more impotent

An unhealed uleer is an iritant favoring cancer in the Majo Clair. Sa per cent of the cancers ext ed have developed on an uleer base. The corresponding figure in the Lanheau Clinic Philadel phia is 30 per cent. Disodenal uleer is le. s apit to be followed by malignancy. Than gastric where but causes perforation in from 30 to 40 per cent of the cases and harmorphage in 70 per cent.

The immediate conditions most dang rous to life in cases of ulcer are acute perforation. harmorrhage and subscutic perforation. In very early cases of acute perforation the prognosis is good if operation is performed but very unfavorable if operation is not performed. Harmorrhage is very etrous and

often rapidly fatal

The surgical treatment depends upon the location of the wheet the patients condution and the character of the ulcer. In cases of small non adhremat gastre ulcer upon the lest crura sture not far from the pylorus—the usual location of gastre ulcer—cusnon or cattery perforation with closure is usually sufficient. In cases of ulcer in the posterior usually sufficient in a cases of ulcer in the posterior through an action of choice is excusion and closure through an action of choice is excusion and closure through an action of the conduction of the c

For saddleback ulcer with or without hour glass deformly sleeve resection alone when the ul er is large and associated with wide induration Decayer does a substitutal gastraction with either programmed and of the stomach and a posterior pair per programmed and of the stomach in the posterior pair per the stomach in a posterior pair per the stomach in the posterior pair per the stomach in the posterior pair per the stomach in the programmed programmed the stomach in the programmed programmed the stomach in the stomach in the programmed programmed the stomach in the stoma

verse colon as practice I by Mountain. He prefers the no I sop method to the long jejunal loop method.

Uner of the pastenor wall of the stomach of the real to the fanceas is leaf treated by expensive through the inter-colo-priphy could under the through the inter-colo-priphy could under the three rutes through the lever peritonesi cavity of the two in In the treatment of this type of ull it is well to fill w W. J. Ways method of Innormy and re-portion of the present contentium and treating a part of it between the stem and wound and it he part of the two the rest and th

If there I practically c implete 5 lone obstructon posteron gastro enter toms will suffer. It acquired steno 1 mea s with a mosable polarus in a 5 lones that can be safely med fuel belowers in pile rogla ty is a spilen lid operation. Ulerra of the capilla il operated 1 upon early can be exceed that if the area of induration is large. It if in the way of surgery jay; a the

In a case of small I odenal ulcer on the anter or anterolat ral wall extraon or perforation with the fautery a advia able. In case of large ulcers on the anterior or anterolateral wall and those of small ulcers on the posterar wall. D axer does a 1 settent of the posterar wall D axer does a 1 settent of the posterar wall D axer does a 1 settent of the posterar wall performs and performs a posteror granter enterotiony. In the posterar wall of the

The treatment of a ristroj junal or marginal uleres legen In tupe n shelter In plyons i patulous or n t. When the photon is occlude I has been removed: the procedure of choice is sett, an of the gastro-interestoms opening anastomous of the praximal and latitat and so the jepnoum and a new gastin enterestomy or a Roux V operation. If a systroj juncoolic strukt complex cates the perture and the ordinary of the control to develop simply and the control to the defected just of the colon is 1 Cattel.

When the pilorus is patul us simple excision of the gistro enterotions (to ure of the opening in the stomach and union of the proximal and distalends of the pipinum are all that is necessary. In eases of pipinul ulcer excision or causerizat, mandlosure of the opening are sufficient if the leaf nissmall but if the les on is large and associat d with industrion; a section is recoursed.

The author dies not perform a Billroth operation or a gastroduoden toms. The Finiter timethod be regar is as too much surgery and not entirely physical entirely physical entirely.

In operations for ulcer such at tominal foci as a diseased gall bl dder or appendix should be looke t f r and removed at the same time if possible. All

extra abdominal for should also be eliminated Surgery gi es more cures than any other treat ment. Recurrence of symptoms is very often due t lack of proper postoperative care. It is after opera ton that medical treatment has its graftest val. Restriction of the diet should be continued according to the requirements of the particular case on I so soll be determined by the surgeon and inferious working to gether

CLAYTON T ACRE 5 M D

Strau A 4: Longitudinal Resection of the Lesser Curratur with Resection of the Pilote Sphincter for 6 a tric Ulcer J to 11 4 to 2 lt is 2 65

After experimental resection of about 0 e half of the pylone muscle in a group of dogs, the empty gime was f unit 1 be short ned from 335 to 45 per cent emptying occurred with 1 effort and gen still makes were shallower than bet re Other types of p 1 re physics failed to shorten the empt 2

At a later late by gut hal resection of the lever curvature was pref rised. The empiring the way if I need from 10 to 15 per c in but was still from 10 to 30 per tent shorter than normal. The storest contract in a were no mil lut shall we ard super feul wases were seen along the lever curval it vectops revealed an atom hant blood upply all of in mild share of the storest, and a super later in the storest on mild share of the storest.

In other animals, the runcos alone of the mu os an immediants along the leaves curvature weter marked. After this operation in monitoring more different and the first own that followings rect and them to lesser curvature a fact with chim 1 and that the contractions and intrinsic merce control. Kenoral of all of the runcefulature of the polonis and animals followed by interruption of the peritation was staffed wed by interruption of the peritation was staffed wed by interruption of the peritation was staff.

The surgical treatment of gester ulter is a certail on hit fail path logical or nations are rime of and the stomach empires in a normal time. Castro-entersorw fat so meet be required in the stomach time to the stomach time to the stomach time to the stomach time that is a stomach time to the stomach time that is a stomach time to the stomach time that is the stomach time that the stomach of the plane time that the results of the plane time that the stomach of the plane time that the stomach of the plane time the deep to treme with resection of the plane mustled does not remove

sufficient tiss e to prevent recurrence
hinty for per cent of all lucers occur on the
post in r wall of the I see curvature and I im
post in r wall of the I see curvature and is
sphinited resection in a pla tic on the antener and
poster ir walls are lone the empt ig time is
shortened below normal the anatomical and ph soI gical relature of the stomach and duodenum are
maintained and hock and operate emortal ti
considerably ic than following massic erecetion.

The author has performed meets one leger curvature received as the performed things relieve to the curvature received as the curvature received as the curvature received as the curvature received to the space of the curvature received to the space of the curvature received to the space of the curvature received to the space of the curvature received to t

verse colon as practiced by Moynihan. He prefers the no loop method to the long jejunal loop method

Uler of the posterior wall of the stomach adhere ent to the pancers is best treated by apposure through the inter-colo cyploic route unless there is gastroptosis. When gastroptosis is present the route through the lesser peritoneal cavity may be toosen. In the treatment of this type of uler it is will to follow W. J. Mayo s method of bringing up afree portion of the great omentum and tucking a part of it between the stomach wound and the pan creas at the site where the uler was attached.

If there is practically complete pylone obstruction posterior gastre enterostomy will suffee For acquired stenosis in cases with a movable pylorus or a pylorus that can be safely mobilized the Finney pyloruplasty is a splended operation. Ulcers of the cardia if operated upon early can be excised but if the area of induration is large little, in the way of

surgery is possible

In a case of small dwodenal ulcer on the antenor or anterolateral wall ext on nor perforation with the cautery is advisable. In cases of large ulcers on the notice or anterolateral wall and those of small ulcers on the posterior wall. Deaver does a posterior spation-interolomy or amputates the dwodenum bels with the site of induration removes the pilorus the state of the control

The treatment of a gastrojepunal or margnal ulcer is dependent upon whether the pivorus is patulous or not. When the piporus is occluded or has been removed the procedure of choice is excission of the gastro enterostomy, opening anastomosis of the proximal and distal ends of the jepunum and a new gastro-enterostomy or a Roux Y operation. If a gastrojepunocol is futula complicates the pc turn and the opening in the colon cannot be closed by simple suture resection of the affected part of the colon is

indicated

When the pylorus I patulous simple exc sion of the gastro enterostomy, closure of the opening in the stomach and union of the proximal and obtain ends of the pylinum are all that is nec sast. In cases of jejiunal ulcer excision or cautierization and closure of the opening are sufficient if the lesson is small but if the lesson is large and associated with induration resection is required.

The author does not perform a Billroth operation or a gastroduodenostom. The Finsterer method he regards as too much surgery and not entirely physic

logical

In operations for ulcer such abdominal foci as a diseased gall bladder or app ndix should be looked for and removed at the same time if possible. All extra abdominal foci should also be thin ated.

Surgery gives more cures thin any other treat ment. Recurrence of symptoms is ery often due to lack of prop r postoperati e care. It is after operation that medical treatment has its great st value Restriction of the diet should be continued according to the requirements of the particular case and should be determined by the surgeon and unternst working together CLAYFOY F AVERS MD

Strau * A A Longitudinal Resection of the Lesser Curvature with Resection of the Pol ric Sphincter for Gastric Ulcer J Am M A 1 1924 1 x 11 1765

After experimental resection of about one half of the pylone muscle in a group of dogs the emptying time was found to be shortened from 35 to 45 per cent emptying occurred without effort and per statue waves were shallower than before Other types of pyloroplastics fail d to shorten the emptying time.

At a later date longitudinal resection of the less curvature was performed. The emptying me as prolonged from 10 to 15 per cut but a still from 20 to 30 per cent shorter than normal. The bonach contractions were normal but shallow and superficial waves were seen along the less upply along the contractions were normal but shallow and superficial waves were cent along the less upply along the lesser curvature perfect healing and practically normal shape of the stomach.

In other animals the mucosa along or the mucosa and musualizate along the lesser curvature were rowed. After this operation the emptying time de not differ from that following resect on of the entire lesser curvature a fact which indicated that the ortractions and emptying time are ind pended or transic and intrinsic nerve control. Removal of all the musualization of the plyious and antima was followed by interruption of the peritakticax of a district case of the work of the musualization of the stomach of the district of the musualization of the stomach of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of the musualization of the stomach of

The surgical treatment of gastine ulter is successful only if all pathological conditions are rein ved and the stomach empires in a normal or shorter than normal time. Gastro-ente ostomy fails to met the requirements. Massive resections (Bildroin II or Polya) are objectionable because of their mortality and because they needlessly sacrifice from 75 to 85 per cent of the stomach. Single excission of the k i with resection of the polione muscle does not remove sufficient itsue; to pre-tent recurrence.

Amely five per cent of all ulcers occur on the posterior wall of the lesser curvature and 1 sq tudinal resection removes the ulcer bearing area if you tudinal resection and a plastic in the anterior and posterior walls are done the empty and the posterior walls are done the empty and the posterior walls are done the empty and the posterior walls are done the empty and the posterior walls are done to the empty and the posterior walls are done to the empty and the posterior wall to the empty and the posterior wall to the pos

The author has performed twesty-one lesser to reactive curvature executions with omortality or subsect to support the property of the property of the property of the property of the property of the property of the property of the top of the stometh a plastice a performed a lo gitudinal incision being made in bind walls and clo d transversely. Staus conducts the

wall (fascia pancreatica) to hamorrhage. The le sion may be round oval or quadrate. Sometimes its

longitudinal axis is horizontal

Scar formation a not infrequent occurrence was described by Chrosek in 1882 and later by Hart Hart found a scar in forty two of seventy two cases Musa found thirty two scars in twenty ulcers and Holzweissig eighteen scars in fifeen ulcers Doubt less their discovery was due to very careful in spection of the mucous membrane and recognition of the fact that certain pocket formations (diverticula) represent escatri al phenomena. In cases of diverti cula of the duodenal wall a more or less distinct sour is found where the borders unite to form a sort of gable The belief that the entire horizontal portion shows longitudinal folds (Schwarz and Holz Inecht) is not correct as the horizontal folds usually begin from 2 to 3 cm from the pylorus The pocket formation is the result of reefing of the mucous membrane by the longitudinal folds and of pulsion exerted at the somewhat narrowed site hy the horizontal folds it is not caused by traction due to external inflammatory adhesions

Only the superficial picers that penetrate no further than the submucosa heal quickly and completely Those that penetrate deeper are always microscopically demonstrable. The proces es are of the same nature as those in gastric ulcer except that healing gastric ulcers show deep glandular processes on their margins which are lacking in Brunner's glands in duodenal ulcer This may explain the difference in the frequency of cancer on an ulcer hasis in the stomach as compared with the duodenum Cicatricial areas covered by mucous membrane are often seen near distinctly fresh ulcerations. These represent periods of healing which have been interrupted by the formation of new ulcerating lesions and are the histological expression of the clinical period city of the condit on

True duodenal stenous is very, rare but a thicken ing of the pylonic musculature is often noted the latter ind cates a functional inducence on the part of this region and may be the cause of the notice of the stenous difference in the stomator of the sto

The origin and persistence of disodenal ulcers are dependent upon the aume conditions as the origin and persistence of gastine ulcer. An important factor is triphic injury of the mucous membrane and as on stant factor is the gastric juice with its digestive action. No doubt cradus and wascular changes play an important tolemost crades and wascular changes play an important tolemost the distribution of the properties of the

or venous status of the internal organs. According to Hart lesseagm of enculatory compensation and conditions causing embolism and thombos is at factors. The author does not agree with light this diseases of the brain and its membranes are of great importance in the development of acute peptic alor neither has his experience confirmed Brignasis in the properties of the properties of the properties of the properties of the properties properties or the properties of the by irritation through the nerves as well as by plys cal and chemical stritation

Of the greatest importance are the extent depth breadth and localization of the lesson. While the osons and fresh ulcers heal readily in mucous met less eviposed to pepthe action. This is not the case when those less favorably situated. The constitut one of greater importance in the origin than in the presistence of the lesson. Cutting a sasertion that ulcers very frequently follow extensive burns of the skin is sumported by a number of cases.

In the author's opinion the time required for the formation of an ulcer need be no more than from a few hours to a few days depending upon the time required for the digestion of the food which has been ingested. It is often difficult to judge the age of callous ulcers callous ulcers are extrem ly rare is

the duodenum

The n che format on seen in the roentgenogram is due in the author's opinion to inflammatory swell ing of the mucous membrane on the margin of the ulcer Histologically both the margin and the base of the ulcer are characterized by inflammatory proc esses Peptic influence and inflammatory process 5 react upon each other Askanazy regarded thrush as a pathogenic factor The author believes with Aschoff and his school that important causes of the continued irritation of an ulcer are fixat on of the mucous membrane and movement of the intestinal contents However he is unable to accept the view that on expulsion the cont nts of the stomach strike the posterior wall of the duodenum and in so doing injure its mucous lining. He believes that recurrent waves are set up by the chyme which enters the duodenum in jets and that these wa est arrested at the posterior wall since at this point the mucous membrane is firmly attached to the under lying layers of tissu Ulcers which extend in the pyloric emin nee lead to thickening and spasm of the sphincter muscle or to in ufficiency evidenced by complete filling and movement of the first segment of the duodenum

From the viewpoint of prognosis there is no important difference between divodenal and gastro ulcer Zu zz (2)

Gray H T The Pathol gy and Symptoms of Duodenal Ulcer B; H J 19 4 i 1 40

The predispo ition to duodenal ulcer cons sts in a relative increase in the normal vagus stimulation which establishes increased stomach acti ty. The outst inding cause is tobacco. Factors which ma

vall (fascia pancreatica) to hamorrhage. The le sion may be round oval or quadrate. Sometimes its longitudinal axis is horizontal.

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Only the superficial ulcers that penetrate no further than the submucosa heal quickly and com Those that penetrate deeper are always microscopically demonstrable. The processes are of the same nature as those in gastric ulcer except that healing gastric ulcers show deep glandular processes on their margins which are lacking in Brunner's glands in duodenal ulcer. This may explain the difference in the frequency of cancer on an ulcer basis in the stomach as compared with the duodenum Cicatricial areas covered by mucous membrane are often seen near distinctly fresh ulcerations These represent periods of healing which have been inter rupted by the formation of new ulcerating lesions and are the histological expression of the clinical periodicity of the condition

Thue dood-mal stemosas as very re but a linkerm gof the pylore musculature is often noted The latter indicates a functional influence on the part of this region and may be the cause of the often considerable dilatation of the stomach. Perforation occurs about as often as in the stomach but cancer tendency of ulcers on the anterior wall to perforate tendency of ulcers on the anterior wall to perforate eld the earlier suggeons to believe that this was typical of duodenal ulc. in Pe foration of ulcers on the posterior wall located either higher up or low and diagonally toward the front may occur with blocking of the lumina by thrombi

The origin and persistence of duodenal ulcers are dependent upon the same cond toons as the origin and persistence of gastric ulcer. An important factor is trip in injury of the mucous membrane and as constant factor is the gastric juice with its d gestive action. No doubt cardiac and secular changes play an important duodenal ulcer has endocarditis a mocardit is or measuritive althrosideroid in content of the condition of the

or venous stass of the internal organs. According to Hart leasening of circulatory compensation and conditions causing embolism and thombous are conditions causing embolism and thombous are constituted to the state of the stat

Of the greatest importance are the catent depth breacht and localization of the leason. Whate me, some and fresh ulcras heal readily in mincost men brane which is firm and stripes such because they are less exposed to peptic act on thics not the case with those less factorably situated. The constitution and greater importance in the origin than in the pre-stenoic belies on Curling's assection that first ulcras very frequently follow extensive burns of the skin is supported by a number of cases:

In the author's opinion the time required for the formation of an uter need be no more than from a few hours to a few days depending upon the time required for the digestion of the food which has be a nigested. It is often difficult to judge the age of callous ulcers callous ulcers are extremely rare in the duodenum.

The niche formation seen in the roentgenogram is due in the author's opinion to inflammatory swill ing of the mucous membrane on the ma gin of the ulcer Histologically both the margin and the base of the ulcer are characterized by inflammatory proc esses Peptic influence and inflammatory processes react upon each other Askanazy regarded thrush as a pathogenic factor The author beheves with Aschoff and his school that important causes of the continued irritation of an ulcer are fixation of the mucous membrane and movement of the intestinal contents However he is unable to accept the view that on expulsion the contents of the stomach strike the posterior wall of the duodenum and in so doing injure its mucous I ming. He believes that recurrent waves are set up by the chyme which enters the duodenum in jets and that these wa es are arrested at the poster or wall since at this point the mucous membrane is firmly attached to the under lying layers of tissue Ulcers which extend into the py loric minence lead to thickening and spasm of the phincter muscle or to insufficiency evidenced by complete filling and movement of the first segment of the duodenum

From the viewpo at of prognosis there is no important difference between duodenal and gastre ulcer Zipper (Z)

Gray H T The Pathology and Symptoms of Du denal Ulcer B 1 M J 19 4 1 40

The p edispos t on to duodenal ulcer consists in a relative increase in the normal vagus stimulation which establishes incr ased at mach acti ty. The outstanding cause s tobacco. Facto s. hich maj

fifteen cases one death. Quénu type right cases no deaths. He reports seventy four cases in which the mortality of exteriorization with late resection and exteriorization followed by immediate resection with the abdomen closed was 8 per cent Mikuficz oper ated upon thirty four cases by the latter method with four deaths

Cruet's statistics with regard to the remote re sults are as follows Bloch type of operation fifteen cases with two recoveries. Vikulicz type fifteen cases with five recoveries. Outnu type two cases

th two recoveries

Three of the author's eight patients were still living three years or longer after the operation One of these three was lost sight of after the third year the two others were vell four and five years respe tively after the operation. In one case there was a fatal recurrence after eighteen months One patient died with complications of small bowel fistula and recurrence ten months after the use of the entero tome Three patients treated before the war propressed well for three years sixteen months and seven months respectively

Besides the eight true exteriorizations the author h s done four immediate resections. Of three patients who had cancers so low that extenorization was impossible one died of cancer within one year another 1 15 still alive two years after the operat on and the third was lost sight of during the war. In the fourth ca e in which partial obstruction had been pres nt for eight days exteriorization was possible but the con lition appeared so simple that resection of the intestine followed by immediate anastom sis was done. The patient died after the operation In the author sopin on this death would ha e been avo ded if the true extenorization method had been used

The formation of a prel minary fæcal fistula may improve the general condit on and relieve the thick ened and inflimed gut wall which is distended with septic material above the obstructing mass

WALTER C BURKE M D

Principles of the Operation for Coffy R C Care nom of the Rectum S & G C & Obst 0 4 XX 11 7 3

Coffe) s operation for carcinoma of the rectum is as follows

A stra ght right rectus incision is made e tending abov the umbilious The lo p of the sigmoid is lifted high up and the peritoneum of the me ent ry is cut down by insinuating the blad of a pair of blunt sci sors beneath the pento eum but external to the vessels. This inci ion goes do vn into the pel vis around in front of and at some distance from the rectum clipping the retrovesical fold near the blad der The left forefinger is then inserted through the m senters , here the pentoneum has been cut and w th the ends of the forefi ger and thumb directed hackward the superior hemorrhoidal arters is felt This artery is ligated in two pl ces The mesentery is sever d and the sigmoid arteries are then ligated

All fat and connective tissue are scraped from the sacrum down to the coccyx and a large most pack is placed back of the rectum

An incision for the colostomy is made i s in to the left of the median line and the proximal sign id after being severed is drawn through this inco on

and sutured to the peritoneum fascia and slin I rectal tube is introduced into the anus sewed to

the distal gut and invaginated through the enus if nossible The abdominal lumen to the left of the emerging

sigmoid is closed by a continuous lockstitch to the brim of the pelvis over a large quarantine drain which extends over the cut bowel to the sacrum completely isolating the lower segment of bowel The pentoneum is then closed around the drain and the

wound is closed in the usual manner About ten days later the rectum gro th and anus are removed by penneal section made in the usual manner for resection of the cocce x and part of the sacrum By the time the bowel has become separated from the surrounding tissues by an area of necrosis due to lack of blood supply and can be helled out with the finger tips There is then a tract from the abdomen produced by the drain which is extrapentoneal and through which irrigating fluids may be poured. The tract opening into the pennest region i allo ed to close

The two stage operation described has a lover mortality and gives a higher percentage of cu es than How RD \ Mck. TC T M D other methods

Auernmell II Extirpat on of the Rectum with Conservation of the Sphincter and without Resection of Bone (Rectument mat on m.t E halt ung des Sphinct is h e knoche k10 1 Z / 4 1 C/1 024 11 98

To remove the diseased rectum radically with conservation of the sphincter Luemmell developed

the following operation With the patient in the lithotomy position the sph noter which has been closed with sutu es is desected out at a sufficient distance from the a opening for about two thirds of its circumfe end The intact third is to the right of the operator The rectum is then dissected out an anal stump the width of at least three finge s be ng left connected with the musculature by a flap on the right sid After its d ssection the t ctum is drawn down and severed and the anal port on is temporarily fixed to the right buttock and securely co ered. The rectal work and excavation of the sacral space can be don without resection of the coccyx The mobilized colon s drawn through the anus as usual Fastening 5 done either after removal of the anal mucosa or into an incision around the anus by kocher's method prevously the centrally located anal ring was fastened to the drawn down colon After the pl cong of a drain the cut sphinct r muscles are ; tured

This oper t on can be used in cases of carcinoma only if the anal portion is not affected and th growth is at a suff cient distance from it In eighte a fiten cases one death Qu(nu type eight cases no deaths. He reports seventy four cases in which the mortality of exteriorization with late resection and exteriorization followed by immediate resection with the abdomen closed as 8 per cent. Mikulica oper ated upon thirty four cases by the latter method with four deaths.

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The formation of a preliminary facal f stula may improve the general cond tion and relieve the thick ened and inflam d gut wall v bich is distended with sentic material above the obstruction mass.

WALTER C BURKET WD

Coffey R C Prin iples of the Operation for Ca cinoma of the Rectum S g Gy Ob i 9 4 x 7 3

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All fat and connective tissue are scraped from the sacrum down to the coccyx and a large most pack is placed back of the rectum

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A rectal tube is introduced into the anus sewed to the distal gut and invaginated through the anus if possible.

The abdominal lumen to the left of the emery, gemoid is closed by a continuous lockstich to the him of the pelvis over a large quantantine drain which extends over the cut boxel to the sacron completely isolating the lower segment of boul. The personeum is then closed around the drain and the wound is closed in the usual manner

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The two stage operation described has a lo et mortality and gives a higher pe centage of cures than other methods

HOWARD A Mck. IGHT M.D.

Auemm II II Exturp tion of the Rectum ith Conservation of the Sphineter and witho t Resection of Bone (Rectumeximp toon mit Eth it gd s5phinet 120 of Knochen 5 at) Zeel it G I 1914 it, 98

To remove the diseased rectum radically with conservation of the sphincter knemmed eveloped the following operation

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of a drain the cut phincter muscles are utured.
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WALTER C BURERT MD Principles f the Operation for (fles R (

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To remove the d card rectum radically with conservation of the sphin ter Auemmell develor d

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impro the g neral c n litten and reli e th thick red and instamed gut wall which is disterded with a tic material above the obstructing mass. WALTER C BURKET MD

Coffer R C. Prin iples I ti Operation I r Carcin ma of the R ctum 1 1 G ne 024 XXX d 723

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WALTER C BUREET M D

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The abdom nal lumen to the left of the emerging sigmoil is closed by a continuous lockstich to the brim of the pelvis over a large quantatine drain which extends over the cut boel to the sacrum completely isolating the lower segment of bowel. The peritoreum is then closed around the drain and the

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The two stage operation described has a lo er mortality and gives a higher percentage of cure than other methods House M.D. McKajon M.D.

Auemmell H Extirpation of the Rectum with Conservation of th Sphincter and witho t Re ection of Bon (Rect m tingation mit E h li u gd Sphincters ohn K oche sektion) Z talk f Ck 1024 h p3

To remove the dis a c1 rectum radically with conservation of the phincter Kuemmell developed the following operation

With the nationt in the lithotomy position the sphincter which has been closed ith sutures is dis sected out at sufficient di tance from the anal opening for about two thirds of its circumference The intact third is to the right of the op rator. The rectum is then dissected out an anal's ump the width of at least three fingers b ing left connected th the musculature by a fl p on the right side Viter its lissection the rectum is drawn down and severed and the anal portion is temporarily fixed to the right buttock and a curely covered. The rectal n th and rarayation of the sacral sp ce can be d ne without resection of the coccyx The mobilized colon is drawn through the anus as usual Fastening is lone eather after removal of the anal mucosa or into an incision around the anus by kocher method previously the centrally located anal ring was fastened to the drawn down colon. After the pla ing of a dra a the cut sphincter muscles are sutured

This operation can be used in cases of carcinoma only if the anal portion is not affe ted and the growth is at a sufficient distance from it. In eighteen

of twenty cases in which it was used the functional result was perfect. In two only formed stools could be held this was not the fault of the method but due to the location of the carcinoma

ION TAPPEINER (7)

LIVER GALL BLADDER PANCREAS AND SPLEEN

Speik F A Liljedahl E N and Falk M A
Observations on the Fouchet Test in Latent
Jaundice J Am If Air 19 4 lxxx1 2097

Observations were made upon 500 patients. Both the macroscopic test for bile in the serum and the Fouchet test for an increase of bilirubin was made in all cases.

Of forty cases with proved gall bladder disease or gall stones in which there was no jaundice and the urine was negative for bile twenty seven gave a positive Fouchet test and in seventien of these the serum was definitely bile tinged. The Fouchet test was positive in the cases of sixteen patients with gastric or duodenal ulcer although none showed any evidence of eall bladder disease.

Of treaty seven patients with syphilis fourteen had a posture brouchet test. In a few case she had a posture brouchet test. In a few case she were symptoms referable to the gastro intestinal system but these disappeared under antisyphilis treatment. Patients suffering from secondary anexus angina pectoris myocarditis and astimation showed an increased hibruban content in the serum could be detected macroscopically in 52 per cent of all cases showing a positive Fourthet test.

WILLI M J PICKETT M D

Graham E. A. Cole W. H. and Copher G. H. Visualization of the Gali Bladder by the Sodium Salt of Tetrabromphenolphthalein. J. Am. W. At. 9.4 kxxxx. 777

For the production of \times_{3} shadows of the gall badder the solution sait of phenoletrabromphabelen has been found more satisfactory than the calcums asil I its more soluble requiring only from 35 to 40 cm of solution instead of the 350 cm required by the calcum sail and it is more stable. It does much less unpleasant reaction than the calcum sail office and the calcum sail office causing practically no discomfort.

The solution is given intravenously preferably in two dotes. It is warmed to body temperature and given is the morning between 7 go and 9 go o clock. Care is used to 9 event extravation because of the between 10 events of the control of the patient is instructed to own the control of the patient is instructed to own the control of the patient is instructed to own the control of the patient is instructed to own the control of the patient is instructed to own the control of the patient is instructed to the patient in the patient is instructed to the patient in the patient is instructed to the patient in the patient in the patient is instructed to the patient in the patient in the patient in the patient is the patient in the patient i

The normal gall bladder begins to cast a shadow from three and one hall to five hours after the inject on changes in size casts the heaviest shadow after from sixteen to twenty four hours and empties

in about forty eight hours. The largest shadows appear on the four and eight hour plates. If the gall bladder lails to show this distensibility it is pathological. The pathological gall bladder casts a less dense shadow or may be entirely invisible Stores appear as positive or negative shadows. In all cases a series of plates should be taken.

L M ZIMMERMAN M D

Dea er J B and Reimann S P Cholecystostomy Versus Cholecystectomy J im M in 1924 1271 21 c

Gall bladder cases may be divided clinically into those as which there has been only one attack or the attacks recurred only after a number of yearand those with persistent indection. Recutrance in the first group is usually due to a new infection. Surgical treatment should be reserved for the second group and when indicated should be undertaken early. The immediate results of delay are gangrene and perforation and a more remote effect stone formation. Pericholecystic adhesions may protect against perforation but are a serious menace to good health.

There is considerable evidence indicating that the gall bladder does not increase the pressure of the bile above that which the liver can produce in secretion but it is known also that it concentrates the bile and adds mucus. Chinical experience has demonstrated that the body can get along as well without a gall bladder as with one and much better without a gall bladder than with a diseased one

The authors aduse the removal of the gall bladder which is apparently only slightly infected if there is reason to believe that it cannot texam its normal function. The gall bladder exhibiting bittle gross change may harbor within its walls serious infection which can be found on bacteriological exam to make the first of the first thin infected gall bladder may continually relief or speed intection to surrounding structures.

The relative technical difficulty and greater risk of cholecy stectomy as compared with cholecy stostomy should not be the deciding factor in the choice of operation if a well developed technique is used. In an occasional acute case primary drainage and secondary removal may be necessary.

RILLIAN J PICKETT M D

Henriques A Some Probable Functions of the Spleen as Demonstrable by the Effects of Radio Acti ity upon That Organ 1 Oric :

The effects of the application of radio activity to the spleen discussed in this article are (3) relief of capillary harmortage (2) increase in the hemoglobin (3) increase in the red blood cells (4) decrease in the white blood cells (5) stimulation of immune bod es (6) effects on other organs

Irradiation of the spleen with a stimulating dose of the \(\text{rays} \) was found to increase the coagulability of the blood

In cases of mvelogenous leukemus both the homoglobin and the red blood cells were markedly increased after treatment of the spiece with radium The effect of radio-activity on the spiece is very marked when the white cell count is high. Irradi too may effect a reduction in the white cells from 800 000 to within 20 000 in a relatively short time. The leucocytes are especially susceptible to action of radio activity anywhere in the body the Jumphocytes mest of all.

Experiments app ar to show that antibodies are produced in the spleen lymphatic tissues and bone marrow

Brief mention is made of the effects of radio activity upon a case of Banti's disease

Morris H Kany M D

MISCELL ANEOUS

Walton H J Eventration of the Diaphragm

Am J R etg n | 1934 x 4

Borzell F F Report of a Case of Traumatic

Hernia of the Diaphragm Am J R signol
19 4 x 14 446

Wattor guesa brief résuméof previously reported cases of eventration and differentiates the condition from herma with which it is most composition from herma with which it is most composition fused. If dicussion is confined mainly to the roentgronlogical signs since these are of prime in portaint in the days is. The chief trengen find may are (1) high position of the displanguation cannot be extension (2) paradosteal movements on the affected side (5) inediastinal excursion from the affected side toward the sound side during inspiration (6) displacement of the heart to the right (1) a distinguishing line between the shaphragmanthe system below it and (8) pneumopertioneum

The only roentgen s. an pathogonomous of events ton of the disphragm is separation of the art hed in of the disphragm is spearation of the art hed in of the dome of the disphragm from the vaccable. This is rendered most distinct by the introduction of a small amount of air into the pertitionary. The pattern may be examined in the upper or the lateral position. In e entration the abdomination whereast dops away from the disphragm while in herma the dome of the disphragm cannot be reolated from the herma also e.

A detailed report of a case is appended

BORELL calls attention to the paucity prior to onty of reports of cases of dapph agmatic hernal diagnosed during Ife Since 1011 the use of the normatic may have resulted in the discovery of many cases Borzell gives the bistory of a case in which the discount of the control of the case in the case in the the discount of the control of the case in the case in the interval of the case in the case in the case in the case in the results are described.

In conclusion he calls attention to

The possibility of the presence of a traumatic

hernia without marked clinical evidence

2 The fact that it is important for the roentgen ologist to carry his studies to a satisfactor; c nclu sion approaching every examination with an open mind uninfluenced by the history or clinical suggestions. If the diagnosis depends upon the roentgen ray the field examined roust not be too limited

Douglas J Subdiapl ragmatic Abscess and Accumulations of Fluid A S g 94 kx 845

ADOLPH HARTCAG M.D.

Anatomical conditions in the area below the dome of the daiph agm make the d agnosis of pus or fluid very difficult and complicate treatment. The hg aments of th. liver (folds of the peritoneum) divide the subphirence area into five spaces.

Abscess may occur as a pre-operative or post operative lesson and is usually secondary to some per forative or infectious lesson of the abdominal vision and the right. The latter lessons are found as a rule on the right.

818

An abscess spreading upward behind the colon from the appendix may reach the retroperitoneal space between the liver diaphtagm and reflections of the coronary ligament. The less on is entrely retroperitoneal and would not be evident if the abdomen were occurred in front.

In the perforation of a viscus the diaphragm is usually pushed up by the resultant abosess. The hyerispushed down but may be displaced ve y little even when ther is a considerable quantity of fluid and air between it and the d phragm!

The diagnosis is often difficult as the phis cal signs are confusing Following an operation I reperforation of a visicus th symptoms due t pertoneal irritation tontanue or subside and the reappear after a number of days as a rule g adually when an abscriss forms before operation as the result of perforation in the symptoms usually prear most of perforations are supported to the presence of some other conditions.

Usually when the absress is secondary and fe quently when it is primary it is mistaken for a pathological condition above the diaphragm

We usually described the physical signs found a cullings of States a dimusted b ath and o ce aunds and socal femities with the prese cool rise over the base of the time. The area of discloses is convex upward and does not change with a change in the p tient post on Higas is p sent there are three zones of different resonance normal above b low this tymping caused by the gas and below this an area of latiness on the night size. If we see this work is the contained that the size of t

The diagnos is is best confirmed and the position and use of the accumulation determined by fluoro scopic examination. This examination should be made with the patient up: that possible is find the should be on the safe opposite the lesson. Puncture should be reserved until a cateful \ ray study has been made.

If the accumulation is in front it is best approached by a high right rectus incision Posterior abscess i best approached by re ection of the tenth rib in the posterior axillary line under local anaesthesia The pleura 1 carefully pushed upward the costo phrenic space entered and the diaphragm seen A large aspirating needle 1 pushed through the dia phragm the pus located and a small opening made in the diaphragm and enlarged by stretching with the scissors so that a large rubber drainage tube may be int oduced If the pleura has been accidentally opened it should be closed if it contains no fluid and the wound packed with gauze for from twenty four to forty eight hours to allow adhes one to wall off the pleural cavity. If empyema is already present it should be drained by the usual resection of the seventh or ei hth rib and the ab cess below the d phragm approached by resection of the tenth rib in a different line or the abscess should be drained through the same mer ion but opened twenty four bours or more after the pleura has been drained It is important to continue the drainage for a sufficient I ngth of time

Eleven cases are reported. In nine the abscewas on the right side and in two on the left side Seven of the patients were males \ine patients re covered and two died E ght of the abscesse were pre-operative lesions and three were postoperative lessons Five were probably the result of perforated duodenal ulcer three of appendicitis one of actino my cosis one of echinococcus cyst of the liver and one of a bullet wound of the upper part of the liver The author was impressed with the frequency of error or delay in the diagno is due to the belief that the lesion was above the diaphra m In most of the cases the \ ray showed the elevation of the dia phragin and the presence of ga Errors in the diagnosis vould occur le s often if it

were kept in mind that compression crused by flurd below the diaphragm may cause physical signs close ly resembling those of a lesion in the chest if the symptoms of an acute abdominal lesion were proper ly interpreted and if the \ ray examination were repeated when necessary and made with the nationt in the erect position or if the appears unwile in the lateral position CLUTON F 1 DR RS MID

GYNECOLOGY

HTERRE

Dal Collo P G Experimental D cidual Reactions Caused by Intra Ute ine Implantation (Re ione dec d te sperim nt le d inn ti e dout rim) A h d obst gnec 1924 21 49

The author revies s the work already done in this field particularly by Loeb and by Retterer and Voronoff Retterer and Voronoff claim that they can produce histological changes in the uterine mucosa ie of the maternal part of the placenta by means of intra uterine implantations of ovary. They do not take into account the work of others who have found that foreign bodies implanted on the uterus bring about a true decidual react on in the mucous membrane of the orean

In the experiments here r ported Dal Collo com pared the action of mert bodies and ovaries intro duced into the uterus of the dog. They did not take into consideration the functional state of the implanted ovaries or of the ovaries of the animal under

going the implantation

After laparotomy one of the uterine cornua was brought forward and an incision about 1 cm long made in the body of the uterus A prece of ovary or sambucus marrow tied to a double silk thread w s then introduced into the uterine cavity by means of a needle which was brought out of the uterus as far as possible away from the site of the incision By pulling on one thread the tissue was brought to the site of the needle exit. The thread was then tied to the other one emerging from the incision and the uterus and laparotomy wound were sutured By implanting the tissue away from the site of the in cision confus on that might arise in the later h sto logical studies from the cicatrization of the incis on was avoided. From two to eight weeks after this procedure the uterus was removed for macroscopic and microscopic study

In these experiments all of the elements of the im planted ovary were always found in a state of re gression which varied in degree with the length of time that had clapsed since the operation

The condition of the uterine mucosa was about the same whether ovary or sambucus was implanted While at times it presented no particular changes from the normal in the majority of cases it was found remarkably thickened but in different cases d flerent elements of the mucosa predominated in the hypertrophy In some instances the deepest parts of the mucosave chyp trophied and pre ented more numerous and larger glands with lumina eight to ten times the normal containing granular d tritus and homogeneous colloidal masses In these cases the deep part of the mucosa assumed a spongy ap pearance and sometimes was almost polycystic but differed from a normal spongiosa in the lumina of the tubules and the irregularity of their distribution

In other instances the superficial parts of the mucosa predominated in th hyperplasia Excres cences of these superficial parts were found which were provided with connective tissue stroma and abundant vessels and lined with epithelium Some times the epithelium was unchanged but sometimes it was strat fied forming the syncytial masses de scribed by Decio Occasionally these almost papillo matous formations with or without syncytium like epithelial proliferations coexisted with the glandular proliferations in the deeper parts of the mucosa but more often one phenomenon was present alone

I more detailed examination of the interglandular and subepithebal connective tissue sometimes dis closed sites of infiltration suggesting an incipient decidual reaction. The infiltrating cells were large and round or polygonal with central round and com pact nuclei and with abundant protoplasm which sometimes was granular. These cells were f und in large or small g ours with little intercellular mat rial and often near small blood vessels

Not infrequently there were also small groups of vesicular cells with well stained nuclei sometimes eccentric wherein Sudan III staining revealed a wealth of hoo d granu! s The significance of these

cells is not known

Dal Collo concludes that the implant tion of an ovary or of an mert body can induce in the uterine mucosa a series of changes which are usually associ ated with pregnancy but that these changes a e in complete and as rule do not involve all of the mucosa at once Ovarian substance implanted in the uterine cavity does not produce a true maternal placenta as Retterer and Voronoff assert but merely histological changes suggesting its formation and these are not constant or complete

S VATORE DI P LM. M D

Hartmann nd Bonnet Bi dder Di tu bance in Cases of Uterin Fibr id on th Basis of 1 000 Consecuti e Cases of Fib old (Les tr bles da les fib mes ter poo bserva tions co écut es d fib ames) Gynéc 1 b 1 g 4 1X 73

The occurrence of bladder d turbances in cases of uterine fibro ds is ment oned in Il tr atises on gunecology and in nearly every instance these dis turbances are attributed to fibro ds on the anter or su face of the uterus and especially those in or near the cervix Believing this theory to be only partially correct Hartmann and Bonnet examined th records of 1 000 consecutive cases of fibroids they had oper ated upon Their concl sions may be summarized as follows

Pollakuma is very frequent but in itself is not indicative of the presence of a fibroud. When it is caused by a fibroud it is present only during the day and therefore is not to be confused with that due to quittis. The immediate cause is a local hyperamia of the tragene demonstrable by the cruiscoper fibrous active the confused of the process of the tragene demonstrable by the cruiscoper later is active retenuous may evolve into the membranous or sangerprosso form

In two of the cases studied there was hamaturns with retention of nume and opstitus. Of greater in portance as the hamaturna occurring during the devolument of the tumor and in the absence of retention. In the one case of this type which was studied an erroniceous diagnosis of mysmo of the bladder was supposed in the contract of the anterior surface of the uterus near the ceruit and the adjacent bladder mucosas was test and hypertrophoed. The authors cite a few simular cases from the hierature.

Urnary retention was present in thirty five (3.5 per cent) of the cases. This incidence is high. In six retention was the only sign produced by the tumor

The chincal features of retention are winted. The most may be sudden without preceding symptoms or gradual with all the disturbances associated with chronic monophies retention. Retention usually appears in the morting and ceases later in the day frequently instances of scart retention focus mortises and the state of the state of the control of the

The most common location of a timor causing fretention was the posterior surface of the cervi. The growth was incarcerated in the hollow of the sacrum and forced the cerviz upward and forward. The conditions were approximately those produced by a incarcerated retrovered pregnant uirrus and incarcerated retrovered pregnant uirrus to the holder and obliterating the view of when go by the bladder and obliterating the view of uterine culde size seld in cause frouble.

In twenty one of the author's thirty-one cases with retention the tumor was found in the posterior uterine wall

The pathogeness is not a paralys s of the nerves of the bladder or a flattening of the bladder. An unusual hyperamia may be a factor. In a jew instances a fibroid of the anterior wall of

the uterus will exert direct pressure on the urethra. The mechanism is probably the same as that of an incarcerated retroverted pregnant uterus. A fibroad of the body of a retroverted uterus or of the posterior wall of the cervix produces a similar condition a longitudinal stretching of the urethra.

ALBERT F DEGROAT M.D.

G utilioud Myomectomy F Howed by Canarean Section (Operat n cesari n d s as d grosses pè my m ctom) B U S d b t i d g y é d P 9 4 x U 40

A woman 27 years old who had been married four months was seized on March 5 1920 with ab-

dominal pain and metrorrhagia. On examination she was found to be in the second month of preg nancy, but as the uterus was above the umbilicus the presence of a complicating fibromyoma of hydatiform mole was suspected.

h) actioned more was suspected on the catheter and a dugmosts of columnous fibroms of the left steel of the uterus was made. On hyral 2 the patient aborted The abortion was followed by a severe humorthage. Further examination exclude fibroms which extended to the unphilicust to be comber whose the catheter of the unphilicust of the comber whose of the catheter of the comber whose of the catheter

On October 17 1021 the patient's condition was good with emissivation recurred On June 6: 7022 she came to the hospital again and was found three menths pregnant On July 7: the uterus was left than it should have been and on secount of the drig noise of managency which had been made previously, a recurrence was suspected. On December 8: 1022 and adaptions to Djacchia pravia was made To belet of the cervix was a faced mass which caused deviation of the cervix to the right.

On December 8 1022 a cassrean section was per formed and as new fibromata were found on the left said of the cervar and in the broad bigament a total hysterectom; was done. Histological examination of the growths revealed that they were either sarco mata or mal guant myomata.

During the convalescence the patient developed, a mass in the left forms which proved to be an inflam matory abscess due to severance of a ureter. On a count of this condition a left nephrectomy, as per formed on January 13 1033. Another neparation was profounded on January 13 1034. Another neparation was abschanged as an other conserved to the patient as a data hope of a superior developed to the patient as a data and the profounded of the patient as a data of the p

Douay E Radium and Cancer of the Cervix Results in Cases Treated in 1919 1920 and 1921 (Radium et c n e d l ol és hists des est utés 999991 to 8 US c deb s t d ey éc d Pa 1924 x 8

The author irradiated fifty cases of cervical cancer with fadium in the period from 101 to 101. Six (12 per cent) were clinically cured after three years of the twenty sur patients whose conditions inoperable twenty sur patients whose condition inoperable twenty four died of recurrences but no (7 of per cent) are now in good health. Of it entit four operable cases it wenty two could be traced four (13 4 per cent) irramaged clinically cured. Of the twenty two operable cases traced ten nere case which the uterjus was not fixed and the cancers as limited. Three (30 per cent) of these patients are in good health. Of trache patients whose conduction was good health.

advanced but still operable colls one (8 3 per cent) is in good? Althe Of the patients with recurrences involving the glinds two were treated with radium after 14 arotomy and have remained cured for three and one half years.

Dougy concludes that unless radium gives results a great deal better than those so far obtained by urgery the treatment of these for cancer of the uterus is rid cal operation.

The articl contain a little risum of fifteen cases which a rearr that I have a result as M.D.

ADNEXAL AND PERIUTERINE CONDITIONS Huet 1 A Rupture and P representation of Providing

The olservat in within a short per life time of two case of rupture of a pro-alpina into the general abdominal cavity led the author to reviee the literature on the subject

The first cast erer ported by Tait in 1868 1973 and 1883. In 1912 Brickner collected innetwone c ses and since their everal isolated reports have

appeared

With regard to the frequency of this accident
there is a naderable liftle ence of opinion. It is
certainly rather uncommon but loubtless in many
cases the origin of the diffu e peritoits is remain
undetermine? It usually occurs in the third deed
of life.

When the ruptur is preduced by traums the resulting spint in an price at one. The use of the tem cripture is not warranted when it effects of an injury do not be one apprient until affect to or more days. It uma or over energetic treatment in the case aspersaites a precisiting infection. This is indicated by the temperature change a not other symptoms in the interval of following the injury Often an incree on the size of the collication of push the product of the collication of the c

The case may be do ited into to a lase eccased or nguize or leaves of popular and case of per foration. When an oil prosalpin breaks not the pertuonal civity of lowing a directly just that the magnitude is correctly applied. When the magnitude is the contract of the contract of the contract of the contract of the contract of the difference in character of the contract of the tube souther these currences of the contract of the tube souther these currents.

is the more seriou. The pathological condition found is a pyosalpinx Usually it is is bilateral. The opening in the tube may be a linear tear or large gap in an area of ne rosis. The pus may pipe r to be ster le or may contain gonococci. s reptococci. or colon bacilli.

Tuberculosis i n t l n seen The peritoneal re a tion appears extremely early about three hours after the runture

Rupture is marked by very sudd n severe ab dominal pan I erforation is preceded by the symptons of an acute 1 fect on Often there is a considerable degree of shock. Subsiquently the symptoms an 1 physical Indings of acute generalized peritonitis develop

The treatment is operation performed as early as possible. The b st results have been obtained by removal of the tube with drainage of the cult desired of Douglas thr ugh the abdominal wou. I Lavag of the abdominal cavity has been abandoned.

Market Precedent MD

Schwarz O H and Cr ssen R Endometrial Tis ue in the Ovary Am J Ob 1 "Gy c 1024

ni 505

This article is based on the e am nation of 410
ovaries. For 3,6 perimens no gro s specimen was
available an lin many of these cross only one section
could be studied. In the remaining 164 cases how
ever numericus blocks were taken from one or both

ovaries
In the group of 164 cases there were elven with
en lometrial tissue and seven with hematoma of the
endometrial type while in the group of 256 cases
there were five with true endometrial tissue and
four with hematoma Therefore the incidence of
these types was very much higher in the series in

which the gro s specimens ere studed.

The authors belie e that they have been able to study a sufferent number of cases of endometrial tissue in the ovary to observe the les on a most of its phases. The frequency with hich they encount cred it lea is them to conclude that it is fairly e m

In the stage which repr sents a hæmatoma sur rounded by a wall containing old blood con ect c tissue cells an I large mononuclear a de ing c ils ithout any epithel I liming the lesion can be e sily verlooked Sampson s p citre describing this late t ge is ery characteristic. The authors failed to

b erve th I sion in connection with definite lut in nd foll cular hæmatomata in various st ges although th | it r conditi ns were present in a consi lerab! number of the cares. Occasionally there was a some a small stromal hæmorrh ges what simil 1 st but this o curr d rather ir gul ly and n ver in the same characteristic mann r in which it was consta t ly obser ed in conn ction with the hemat in ta s ppos dl) of endometr allorigh In the pr sence of adhe ns associat d w th harmorrh ge the germ nai epithelium f the ovary may s mulate tabe or ute ine epithelium The authors have noted this frequently but ha e not obser ed the fo mat on of gland tubules beneath such an ar a or any characterist a stroma beneath the g r ninal epithehum

Schwarz and Crossen belie e that in the p oduc t on of the less of diffuse adenomyoms of the uterus in the case of chronic sub avolution of the uterns with no other lesion in the uterine wall the glands inside the wall primarils and the hyper plass of the myometrum develops subsequently That such hyperplass could occur from glands in vading the pertioneal surface is well illustrated by Seelig a scase in which the lesion was in the appendix Accordingly it seems probable that the muscle insiste so well developed in the late stages of adome momen of the rectionignal septum may originate in this manner. Enway D. Corystix M.D.

EXTERNAL GENITALIA

Schroeder R Vag nal D charge (Ub dan Pluo an li) Al li k s h 19 3 2 91 The cervical canal may become the source of in

creased mucous secretion as the result of a mechanical injurt bacter ad disease (chronic cory a) vago ton a gonorrhea and postgonorrh rad irritation polyps of the cervical mucosa submucous myomata projecting into the vag na and care noma of the curr. The condition most commonly a societies

with cervical hypersecretion is erosion of the portio

In the vagna through the activity of the vagnal bacilia na cold reaction is produced "neutrilization or alkalmration of the vagnal secretion by excess alkalmration for the vagnal secretion by excess alkalmration for the vagnal secretion by excess alkalmration for the vagnal server durage to the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal offers of the vagnal

The valva also may be the source of a discharge A thorough general and pure ological estimation should be made and particular attent in paid to the microscopic and cultural findings. In cases of catarrh of the cerva: treatment for gonorrheral plastic removal of scar tissue or treatment for ag fouri shulf le given depending upon the cause of the condition.

ORSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Da i J F Kellogg B V and Amolsch A L. Anatomical and Clinical Studies upon 8'3 Pl centa: im J Ohn (5 19 4 N C37

Simple washing if the venous and art roll flood circuits of placenter with water at hydrant precure with the affit in of girlle hand massing will pregare the him for a satisfactory grosserum nation and will aid in the s lection of a choras for microscopic study.

The new that lave been wish life e from blood injected with a imple of aque material such as larium sulfate and it end to exact life in a state of the sulfate and it end to exact life in a state of the sulfate in of objects and the blood circuit and attorphic change is in the parenchyma.

the inje tion of the clear of blood circuits of the pheciata with e lort | gelatin | 1 | tratisms and i corrosion of the tissue outside of the circuits prepares excellent ap circuit ms for smart mical study of the canal action archite tir

When the co I is centrally instite I ach array supple as pyropialmetely half of the placents of placents with excutre ally inserte I co I sone array in the placents with excutre ally inserte I co I sone array when the course with the course of the placents of the placents which could be suppled to the course of the placents of the p

Necrobic areas may be interpreted as the result of infarction infection or the changes of age. In farction changes the most common of all leanns, in the placents are to be regarded as both physically considered and the placents are to be regarded as both physical control of the placents. When they are stimulated distriction are of importance. When they are stimulated in the placents with the placents of the pla

Of 500 consecutive patients examined 19 60 per cent gave no evidence of general pathology while they were in the hospital for confinement and had no record of abortions miscarriages at 1lb rths neonatal deaths or I revious puerpeal pather; Judged by rigid microscopic standards 31 berrets in the placenta armino or umbilied and Othia per cent of these give h stologic or sembgroup of stribulity infection.

The gross appearance of the cord and plantis in locate I at normalite car out to 4 per cere of the 500 appearances. White infarction was observed in 2-4 per cent but with infarction was observed with microscopic and last fairly citizen for out-7 it was found that only 12 per cent showed La condition to an excressive degree.

Albummura was observed in as 3, per cent aid hyperten on In 36 5; per cent of the case. The month raw hot had 14 per cent of the case that the case of the case that the case of the case that the case of the case that case the case that case the case that case the case of the case that case the case of the

Crosse 4 and Pasquerrau Millared Press n phrills and Cholcystills During Free and Treatment with Autogram Sacrae Delayd of a Li ing Child at Term according to the Child at the Child at the Child with the Child at the Child at the Child with the Child at the Child at the Child of the Child at the Child at the Child of the Child at the Child at the Child of the Child at the Child at the Child at the Child of the Child at the Child a

A voung prim gravida with a nega ite habite che and a worsard with evere pun typ cal of bilany che and a worsard with vounting chilis and fever to the strength of the children of the print of the children tendences in an italiant of the abdomen tendences in the right co too-trebeal angle and puris suggested predomphritis of the right kidney. The tune gave a pure culture of Fredlendence shedilus.

The treatment const ted in the u e of an autoficen us accine each cubic centimeter of which contained one million regiments. A week liter the symptoms were more severe and the vaccine as therefore administered e ery other day. The amount us d was at first of c cm and was gradually i reased.

For the welst there as improvement but at the end of that in the helf kidney becames out of the end of that in the helf kidney becames out of the end of was caused by the passag of firm who purulent mas es. The attack was followed by other three seeks of gradual improvement a beauthy unfant was then deli ered at term and the mother m is an in entitli recovery.

LE IF DEG OL MD

Fink A Ocular Disturbances During Gestation (Augenstorungen im Gestat nprozes) D Ische med II hischr 923 alss 1465 499

The relationships between the processes of gestation and pathology of the visual organs are numer out. In this article the author deals only with the visual disturbances and changes in the eye grounds which are associated with hydrops gravidarum and the various forms of typical nephritis in pregnant.

All disturbances of vision during pregnancy unquestionably demand an examination with the ophthalmoscope. It is generally believed that the ophthalmoscope. It is generally believed that the caute disturbances of vision or blundness in pregnant women with the signs of nephropathy or with a firestiened or an already present celampsia are relatively unumportant and do not indicate interruption of the pregnancy in cases of acute blundness or severe amblyona with normal eye grounds are moved of the products of gestudion becomes recessing only a firm that the control of the product of the control of the c

When detachment of the retina is found it is necessary to determine first whether the cause is a simple nephriopathy or a severe chronic nephritis. In cases of simple nephropathy an attempt should be made to obtain re attachment of the retina by rest in bed and dietary measures. In severe chronic nephritis the uterus should be empited at once

The theory that retinitis gravidarum occurs only with chronic nephritis is incorrect. This condition is often among those associated with hydrops gravi darum namely the Lidney of pregnancy nephro pathy and eclampsia. It is only in the exceptional case that retunitis grandarum is an indication for the interruption of pregnancy. The prognosis as to life and to vision is lavorable. Three of the author's cases proved incorrect Adam's theory that the prog nosis is poor in the cases of pregnant women with a chronic nephritis who develop retinitis. However when the retinitis is due to nephritis the uterus should be emptied as in such cases the prognosis as to hie and vision is ery poor Schioetz believes that the patient with chronic nephritis and associated changes in the eye grounds should be subjected to sterulization but in the author's opinion this is war ranted only in the most severe cases

VON TEAM > (P)

Bunzel E E AStatistical Review of the Toxernias
of Pregnancy Am J Obst & Gy 6 9 4 1 686

In a series of 46 cases of gestation toxemia the pregnancy was terminated or labor was induced in 100 (2) per cent). This was done by dilatation and curetizage in four cases. Bysterotomy and sternlusation at three hypodermic injections of printing in three artificial rippure of the membranes in six. the introduction of a burge in twelve the introduction of a

Voorhees bag in fifty-one vaginal hysterotomy in three and abdominal cæsarean section in eighteen

Of the righteen abdomnal casarean sections fifteen were performed for indications other than the toxema. Operative induction after the fifth month of pregnancy was done be ause of toxema in only sixty nine cases (14 8 per cent). Fifty four patients (11 per cent) had convisions. Two had been toxic in previous pregnancies and two had had toxema with convisions. The onset of convil sions occurred in the fifth month of pregnancy in two cases in the sixth month in the righth month in seventien cases and in the ninth month in nine teen cases.

Of the fifty four 1 omen with convulsions ten (18 per cent) were private patients most of whom were first seen after the onset of the toxemia fifteen (8 per cent) were climic patients and twenty nine (54 per cent) were emergency cases

The convulsions developed before labor in thirty one cases (57 per cent) during labor in even cases (13 per cent) and after labor in sixteen cases (30 per cent)

Labor was induced or hastened in eighteen cases (33 5 per cent). The method u ed was vaginal hysterotom; in two cases abdominal exasteran section in two cases (both with a deformed pelvis) the introduction of a bought in one case, and the introduction of a be in thirteen cases.

In the fifty four cases of convulsions there were six maternal deaths (11 1 per cent) Labor was induced by bags in four of these cases. In one de livery was accomplished by version and breech ex traction because of a prolapse I cord the baby was saved but the mother ded of shock. In another that of a woman who had sixteen convulsions before and during labor a dead baby was delivered with difficulty by means of instruments. In two cases in which bags were employed the convultors con tinued postpartum and the mother died of an over whelming toxemia In one of the latter cases the hver was four times the normal size and contained many hamorrhages Of the two maternal deaths oc urring in cases in which bags were not employed one occurred before delivery following the signs of a cerebral hæmorrhage and the other followed a hurried difficult forceps delivery done because of convulsions which began in the second stage the convulsions continued in the postpartum period

The onset of the convulsions of curred b fore delivery in four cases and during delivery in two cas s. There were no deaths in the group of sutteen cases in which the convulsions began after delivery. Two of the patients with convulsions who died were in the eighth month of pregnancy and only one was at term.

Of the babies in the fifty four cases of convulsions twenty-us, (so per cent) left the hospital alive and well and six (is per cent) died after brith. Four of the latter were premature and in one hamorrhages were found in the visce ant autopy. In one case ro

definite cause of leath as found T enty-one (40 per cent) vere stillborn. Of these eight were macerated one showed osteogenesis imperfecta two were injured at the time of d ! ery and in four visceral hamorrhages vere found at autonsy. In six no definite cause of death could be di covered

In the entire's ries of 46, cases there were twenty five pairs of t vins and one set of triplets. Three hun fred an l eight; two babies (8 per cent) ere born al ve and III (22 per cent) we e stillborn

In the Liz cases of stillbirth pregnancy was int r rupted by dilatate n and curettage in three and by hysterotoms in four Ther were forty five cases of macerated fetuses th rty premature births fourteen deaths due to miur; s at the time of delivery one case in which the mother had meningitis one case in high the mother had a c rdiacles on an I pneumonia ten cases in which no cause of death c uli be found and the e cases of congenital anomaly (hydronephrosis ge eral anasarea and osteogenesis imperfecta)

Of the 182 bal ies born abve twenty nine (6 per cent) die I subsequently in the hospital from the follow ng causes a co genital heart condition one congental syphilis one to s, nital cl ft of the ab dominal wall one visceral hymorthages three pneumonia three and premature birth t el e In eight cases no lemonstrable cause of death could be found Thre hundr dant fift three babi's (72 pe cent of all those born of toxic mothers) left th

he mid ali e an i well The maternal de that is the entire series of 169 cases number d fourteen a gross maternal mortality of a ner cent. In four of these fourteen fatal cases nin of which were emergency admit sion death was die to oth r complating conditions. In one case that of a oman who hall een delivered of tripl ts autons) sho ed invocarditis bronchopneumon a and chronic nephritis. In one case of placenta the placenta was extra ted m nually and the uterus packed. One woman died before del - ry of card acinsufficiency and one it d with symptoms of men nestis. Therefore the corrected maternal mortal ity of pregnancy ith toxemia was 2 per cent The article is summarized as follow

The inciden e of pregnancy with toxximia is 6 t per cept and convulsions occur in o per cent of all

pregnancies

Careful prenatal care with bospitalization of pa tients showing a gas or symptom of a complicating toxemia is esse tial. During the p enatal period foct of infection specially in the mouth should be cleared up The p i ent s home conditions should be investigated and corrected in order to eliminate ary source of warry

Many cases go into spontan ous Libor E en when con ulsions have developed induction is contra indicated until medical treatment has been given a fair trial

Tox c Follow Up Cl nic is of great import ance for here the patients may be ob erved and d used while they are in the non preg nt state. In

such a choic a pre pregnancy course of tre tment might be go en which yould lead to imprement in prenatal care FDWARD L CORNE L MID

Magner W Th Patl logy of Stillb th and Neonatal Death 1 Cl Med 024 11 440 The author defines stillb rth and neonatal death

The term neonatal death he apples to the deaths of infants occurring after birth from some caus

arising within the uterus or during delivery The article is based upon a study of thirty nine

cases in which autopsy was performed. Of thes twents two were cases of stillbirth and seventeen s e e cas s of neonatal death Of the stillbirths 454 per cent were attributed

to asphyria or interference with oxygenat on of the fetal blood

The author a conclusions with rega d to sphyvia neonatorum are as follows

In the presence of general haid to and mult of subpleural and subepicardial hamo bages in con proction with fluidity of the bl o I and cong string f the meninges and viscera it is a stifiable to conclude that the infant died from asphyxi

2 When with the find ags mentioned ther sa maternal placental or cord condition sufficient to account for a reduction in the circulati n through the placenta or deficient oxidation of the infant's blood a diagnosis of primary a phy a is un ssaila

3 It is not jistifable to attr but death to asphysia on the basi of petechi Thomotrhages al no as the latter may be due to a minor degree of a phy in associated with firth or possibly to deg perative changes in the capillary all a sociated with a toxemic p ocess

4 Th eight of evidence i aga at the occur r pee of respirat ry movem to in a so ton with

intra uterine asphyvia

Asphyxia 1 the most common cause of st ll b rth Maternal t ramia may and usuall does cause the

death of the inf at as a result of secondary changes in the riacents. The so called albuminume pl u ually shows very num ous pale bloodless areas n its uterine surface and extending for variable distanc a nto the substa ce of the org rhages are also ery common

The lesions des ribed are to b regarded as pathological more because of the r exte t th n be

caus of their pre ence Wh! death was attributed dire tly to maternal toxxima 1 0 h 14 2 per cent of the cas a reported it is very probable that in the last analysis this con d tion would be found respons ble for a large number

and perhaps for the majority of stillb rths and early postnatal deaths The only conclust e end to of f tal syphilis is the demonstration of the treponema pall dum in the

With regard to the placenta the author state that if the syphilitic fetus survives the period of intra

uterine de elopment and is born alive, the placenta all usually be found normal but the placenta of the syphilitic macerated fetus practically all ays shows definite pathological chang's Maceration 1 not indicative of syphili

One of the intrapartum deaths was attribut I to

status lymphaticus

There were two case of an ncephaly with no macro copic trace of the adrenals

In eacht of the se enteen cases of neonatal death t ere y cre hamorrhages within the cranium in three they were intraventricular and in five meningeal Of the meningeal her orthiges all except one were associated with tearing of the tentorium cerebelli It survival of the infants ranged from one hour to even days. Trauma is an important factor, but in certain cases of hamorrhage the bleeding is due to a hamotrhagic diathes s

I number of neonatal deaths are due d rectly to leficient expan ion of the lung, atelectasis In three cases the death of the infant was the result of b onchopneumonia and in at least one of these the infection was contracted before birth Other in fections also may cause death. In one case it appeared that death was due to a large hamorrhage into the medully and inner lavers of the cortex of the lett adrenal. In another c se the cause of the infant's death as not determined. The only abnormality found vas a considerable amount of slight ly blood stain I fluid in the peritoneal ca ity vas present in thirt en of the cases leviewed

ROLANDS CR N M D

This article is based on seventy se en case reports thich ar summs & d brieff and upon one case seen by the author

The author's patient a wom n o years old entered the hospital becaus t continuous menor hagia with pan F ur days lefore the onset of these symptoms in astruction occurred at the normal time but v as less profuse than usual. In the absence I signs other than rigid to in the right love guad tant a di gnos s of appe d citis was made

At ope ation the right tule and the appendix were found normal but the 1ght va , was greatly en larged and contained ecclivmoses and a mass having the appearance of a large orpus hæm rrhagicum from hich a small am unt i bleeding had occurred into the pe itoneal ca it; There were no adhesions The right dnexa er r moved

Aft I ha dening the o ary wa opened and exam med microscopically. In a blood, lot within the la ge mass an embryo was found in an intact amn otics c E identily the ovum had be n largely sena rated from contact with the o arian tissue by a hæmorrhage around t Extern lly the capsule of the ovum vas continuous with the cortex of th vary Internally in the absence of encapsulation the chorso ic villi were in di ect contact with an ad

jacent corpus luteum. The blood ves els of this re gion were markedly dilated because of the presence of the trophoblast

Examination of the embryo revealed such marked at cormulaties that its age could not be determined

The etiology of ovarion pregnancy is obscure Exidently fecundation occurs at the time of ovula tion or just preceding it but the exact point of im plantation cannot be determined because of the rapidity of the changes induced by the trophoblast

I ctopic prignancy i favored by inflammation The pathological anatomy varies greatly with the stage of development of the ovum. An early ovarian pregnancy appears as a hæmatoma and its nature can be determined only with the microscope Ad vanced development of the ovum so distorts the anatomy that its origin within the ovary is very

difficult to demonstrate The vascular changes at the point of implantation are similar to those taking place in a normal preg nancy but because of the paucity of blood vessel in the ovary the resulting vascularization is more fragile and early harmorrhage and de truction of the

Frequently the embryo is abnormal as in ectopic

ovum usually result development elsewhere In a very few hours after the death of a small em

an organized blood clot

brvo it disappears by autolysis but the chorionic villi persist for a long time. The chorionic villi have been observed after five month in perfect condition. This finding offers the only means of distinguishing a hæmatoperatoneum due to pregnancy from that due to rupture of a granhan foll cle corpus luteum or luteum cust

The histology of ovarian pregnancy proves con clusively that the implantation is an active process on the part of the ovum and that the decidua is of maternal origin and not essential to the implantation of the ovum It is probable that the tissue described in certain case reports as decidual tissue vas a portion of greatly altered corpus luteum Contrary to general opinion the point of im-

plantation is seldom within a follicle

In ovarian pregnancy rupture is apt to occur very early and the hemorrhage is seldom severe

Occas onally hamorrhage about the ovum arrests the growth but fulls to rupture to the surface of the ovary and passes unrecognized. In cases of persistent pain operation may reveal a large ovary containing

Advanced ovarian pregnancies are difficult to identify. While the removal of a viable fetus at term has been reported death with maceration or the formation of a lithoped on is the usual history ALBERT F DEGROUT M D

LABOR AND ITS COMPLICATIONS

Hodgkins E M The Hirst Transperitoneal Caesa rean Section B / 11 & S J 924 r c 92

In the author's opinion we should consider all of the ne er cæsarean sections as cervical operations and then divide them into extrapentoneal intrapertioneal and transpersioneal procedure. The extrapentoneal operation has been given up as impractical. The intrapersioneal method should be discarded also as it does not protect against spill or infected lochia. In the transpersioneal method the perstoneal cavity is protected. The author of seribes the technique of the Histi operation in details.

In all cases in which a cervical operation is per formed some labor is necessiry in order that the lower uterine segment may be thinned out and wid ned and the til user findered looser for a para tion. Distation of the cervic is imperative on account of the location of the incasion and framage. The ad antages of this operation are illustrated by the report of locations of the were frankly inflected the report of locations which because pregnances is not to be feared because the excellent healing and location of the sect

The author has operated upon forts three cases In all exect to one case there was sufferent labor to dilate the cervax partially. Many of the women were advance in a lots when they were first seen. A large number had been examined vargoully at least once. Instrum its were spil of so one executly. This case lid not become spil case might be expected. There were no miternal ideaths. Two of the babies were born deal and once de dot attlectasis. The mothers were cattlette, free from perstanced.

reacti no indicating peritoritis
In the Hirst transperitoneal casarean section the

peritoned travity is peritoned to a real accuming peritoned travity is peritoned to a real accuming to the borel in Force shock and post operative intestinal complications are minimal. The layers are rapidly seried and in cases of pure peral sepais the drainage is extraperationed. There can be few intraperational a linkerious Transpert toncal cervical assarterian section can be rep atted and is applicable to it the denia and indected cases.

. .. .

PUERPERIUM AND ITS COMPLICATIONS

Rundlett D L Some Remark on the Etiology and T entment of Puerp ral Eclampsia by the Tweedy II thou I low Stat II See 924

The author st tes that puerperal eclampsa is due to inability of the mother to assimilate foreign pro teins. The treatm it is nisted in climination during the pre eclamptic stage it had ministration of mor phine and atropine on the us. of metasiers to promote climination and the us. of metasiers to promote climinating position to the proposition of the

Rundlett ad nes gainst accouchement force but f the patient is dying he performs a vaginal crarean section. He does not recommend vapor baths chloroform or bleeding. He employs entrum vinde to reduce the blo d pressure.

ROLA DS CROV M D

Whitehouse B Puerperal Sepsis Its Pr vention and Treatment La et 1924 c 1 091

The author discusses pureperal seepas from almost every standpo on He draws attention to the v to b gh death rate from the condition in Legland as compared with Socialand and Ireland. The higher the both rate the greater the maternal death rate the greater the maternal death rate which rate the greater the maternal death rate was a highest in top. Pureperals espos in much more common in the urlan than in the rural distincts. The factors responsible are the squalor and dr to the alons the bustle and rush of the town practioner the mode fe and som of the maternity tower the responsible are the offer the source of the source that the standard rush of the factors rush for all some of the maternity tower the mode of the source that the standard rush of the maternity tower the mode of the source that the standard rush of the maternal rush of the source that the standard rush of the maternative that the standard rush of the st

In discuss ng the shortcomings of the midwif Whitehouse suggests that all maternity homes be registered and period cally inspected. Purepreal sepsis may be prevented in the homes of the very poor by pr per personnel and care. Better antennatal care and more specialization are necessary.

All streptococci in the genital tract of the partine ent woman should be considered as potential sources of infection. As infection by the blood stream is possible careful and thorough treatment should be given any septic focus pres in during pregin cut.

The treatment of purperal sep s must be begue acity. The local treatment should consust in preparing the patient by shaving the genitals cleaning the perineum vagina and uterine cavity with sodium hypochlorite I ght curettage and establish ing firstage by means of two rubber tubes carried to the top of the fun isa. Irrigation should then be done every two or three hours. In the constant of the constant of the constant of the constant of the provide harmful in the author's cases and in several it has undoubtedly caused improve ment by removing retained decomposing portions of placenta or membrine.

To date the author ha had sixty t o cases of se ere puerperal epsis with only five deaths

Is general treatment he recommends (1) s rum therapy (2) the use of autogenous accures (3) intra enous injections of aerifavine in 1 250 saline solution (4) a concentrated and nutritious diet and (5) a blegraf allto ance of alcohol

ROLA S CROV M D

Eich I O R A Preliminary Report of a Statistical Study of Puerp ral 5 pais 4m J Ob 1 & Gv 0 4 667

The article discuss s the mortal ty of puterpering seps an \rangle York C ty and \rangle W York State the geographical distribution of the cases their occur ence in the practice of physician and midwires a soonal variation in the condition its occurrence with relation to the age and marrial status of the mother and the associated causes of death.

During the five years from 1918 to 922 inclusive there ere 7 000 deaths from all puerperal causes in the state of New York Of these 3 461 were reported from New York City and 3 539 from the rest

of the state Puerperal sepsis was given as the cause in 1 pto (27 per cent) of those occurring in the entire state in 852 (246 per cent) of those occurring in New York City, and in 1038 (30 per cent) of those

occurring in the rest of the state

For stylens following jote the trend of the death rate Immail purperal causes (this being a rate based on his british and stillburths combined) was definitely downward. The New York City, trate dropped from 56 per cent in 1910 to 44 per cent in 1910 and that for the rest of the state from oper cent in 1910 to 53 per cent in 1916. In 1918 the influents epidemic caused the rate to rise to 0 per cent in 1940. City and to 83 per cent in the rest of the state from oper cent in 1940. Vol. City and to 83 per cent in the rest of the state Alter 1018 it dropped sharph.

The sepsis rate declined in New York Citt from 19 per 10 000 live births and stillbarths combined in alone to 12 in 1921 and in the rest of the state from 28 in 1910 to 21 in 1921. The speed of the decline was slightly greater in New York City and about ten points lower throughout. In no year was the rate for the rest of the state as low.

In New York State the mortality from all puer peral causes from septicarmia alone and from puerperal causes exclusive of septicarmia shows a very definite and regular seasonal amation. The

septicemia peak occurs in March and that due to puerperal causes in February

In general the lowest mortality from both the large citem and other pureperal causes is found in the large citem in the hard pureperal causes in found in one is sudent patients. This is probable due to the fact that the non resident mother is usually confined in an institution where there are better facil ties for proper care than in a private bonne.

During the five year period studied the number of deaths from pureperal septicarmia was 14 per 10 000 I ve births and stillbirths in 'New York City, and 23 n all upstate cities combined 2 in upstate villages of over 500 population and 16 in the rural area of the state. Thirty four upstate cities had

rates ranging f om 20 to 64

Deaths due to sepsis were not limited significantly to any one or even several physicians in any city but on the contrary were freely dist ibuted in the price of many physicians. These men included the majority of physicians who attended obsettrical patients and therefore we e exclusive of specialists and aged or retured practitioners.

While it is generally believed by members of the medical profession that the midwife is largely responsible for the high mortality from puerperal causes the facts in \(^{1}\) n lork State are entirely to

the contrary

Of the 1 906 deaths from all purpreal causes in 311 872 confinements during the vers 1907 to 1921 630 [32 6] per cent) were due to septicemia. Reduc ing these to a ratio per 1000 confinements at each successive age from 13 to 50 years the following distribution is obtained from 15 to 100 years of age 100 per 10 500 from 201 24 years 184 f om 25 10 39 years 188 \$ 10m 30 to 35 years 2 8 \$ 10m 35

to 40 years 231 from 40 to 45 years 28 g and from 45 to 50 years 320. Therefore the danger of death from septicæmia increases steadily after the twentieth year.

There were (og dealths from septicerma among martied mothers in 268 176 confinements the mortabity being therefore 196 deaths per 10000 as compared with a rate of 120, 3 among unmarited mothers with 3,81 confinements and forts five deaths from septicerma In the cases of married women the incidence of stillburth was 3,3 per cent while in those of unmarried women the incidence of stillburth was 3,3 per cent with our deaths from septicermal In the Case 20 ft. 11

Bailey H The Serum Treatment of Puerperal Sepsis 1m J Obst & Gy cc 1924 v 658

The serum used in the cases reported was prepared by Huntoon. Horses were repeatedly injected with a mixture of strains selected to cover the majority of hamolytic streptococci represented in the sero locical classification and in disease sources.

In most instances 100 ccm were given but in one or two cases only 50 ccm were administered Before injection the patient was tested for hypersensitiveness. An erichmea less than 2 cm in extent was considered the limit for a negative text. In one case desensitation was necessary. This was done one of the control of the co

A number of the patients developed serum sick ness. As a rule this was first evidenced after forty eight hours. Large urticarial wheals appeared but while the tiching was always intense it was temporar di, richeved by small doses of adrenalm. The author has crased to frar serious effects from the administration of the serum ber it.

In the presence of a fever continuing through a

second twenty four hours 100.0 cm of serum should be administered after proper desensitization tests and at the time that the blood and uterine cultures are taken The patients with infection were kept out on a

balcony between two wards and in both winter and spring were exposed to the outdoor temperature Moet of the beds were protected from direct drafty by undow screens in arches of the balcony to local treatment was given. The number of examins of or actum seek limited. Following the upsetum of rectum seek limited. Following the upsetum of the protection of the protection of the protection of the protection of the protection of the protection of a parametries. Enward I Convig M D.

NEWBORN

Capon N B Hæmorrhagic Disease of the New born With Report f Six Cases Lo 1 19 4

In hæmorrhagic disease of the newborn the hæmorrhage usually begins between the second and fifth days after birth and rarely lasts more than five days. It may be external or internal. External bleeding may occur from the nose mouth vagina urethra bowel or umbilicus. Melæna with or with out hæmatemesis is the most frequent form. The blood's susualli fluid blut occasionally contains clots.

I vrexia is frequently noted

Before the introduction of treatment by blood injection the mort hty ranged from 50 to 60 per cent. Today it is from 10 to 20 per cent.

Ulceration of the gastro intestinal canal occurs in less than 50 per cent of the cases the majority show only hyperamia congestion and punctition hemor rhages of the gastro intestinal mutous membrane Occasionally small superficial eros ons are seen. It is said that round cell proliferation occurs in the submucosa.

It is now generally believed that the fundamental cause of hamorrhagic disease of the newborn is a

fault in the blood chemistry

The best treatment is the adm instrat on of whole blood. Whether the decase is due to dicency of prothromb n of platel is of fibranogen or of throm lokinase whole blood vill supply the deficient. Whole blood probably stimulates the neonatal its sues to produce the substance which was previously deficient or absent and compensates for the loss of

fluid due to the hamorrhage

Unless the bleeding is very severe at its onset the biole blood may be given at first by the subcutane ous or the intramuscular route. The does to be at the cli it call examination. In a case of average sever it is probably best to begin by injecting 30 compared to the client of the contract of the co

When the infant fails to improve spelish with this treatment no time should be lost in resorting to intravenous transitions one for as Holt has emphasized the infants who de rarely survive moethan three days and office less than one

It has been the experience of most clinicians that

prelumnary typ ng of the blood is unnecessary. The injection may be made into the external jugular vein or the sup root longitudinal sinus. The intains a lead must be held firmly by assistants and the needle introduced as far postenori, as poss blo in the anterior fontancile to a depth of about \$\frac{1}{2}\text{in}\$ in the anterior fontancile to a depth of about \$\frac{1}{2}\text{in}\$ in the anterior fontancile to a depth of about \$\frac{1}{2}\text{in}\$ in the auterior feeta are unlikely to result if the operator remembers that when the point of the needle is in the sinus the transfused blood aboud be made to flow with only

the very slightest pressure on the syning piston. In all cases the blood bould be citrated to c cm of 3 per cent sodium citrate solution being added to act, to o c cm and should be injected at bod temperature. The volume that should be injected depends upon the clinical condition of the infant sufficient to supply, the substances becessary I clotting and to replace the cellular elements lost by the himorrhage. Horse serum and human serum have frequently proved efficacious but must be

Iresh
It is unnecessary to emphasize the importance of
employing the surgical treatment which may be a
dicated for the control of hemorrhage Shock
caused by severe blood loss may requi e intraveno
or subcutaneous injections of normal saline solution
Rectal injections of 5 per cent glucose solut on have
also been useful to combat this condition.

All but one of the author's patients recovered

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

The Renal Circulation Lee Brown R k S 12 024 1 8.3

The investigation reported in this article was undertaken to eliminate the existing doubt regard ing certain features of the final distribution of the renal vessels. The outstanding points of the con troversy seem to be (1) the origin of the rectæ of the medulla and (2) the existence or non existence of a blood supply to the cortex from the renal artery which has not previously traversed a glomerulus

In 1842 when Bowman published his classic ac count of the renal circulation he concluded that the cortex does not rece ve any blood supply that has not previously passed through a glomerulus and that the arteriæ rectæ originate as efferent glomerular vessels

In the author's investigation a large number of sections from mammalian kidneys mostly human tissue were studied. It was found that the inter lobular arteries may terminate (1) as an afferent glomerular artery to one or more glomeruli (2) by breaking up directly to supply the con-oluted tubules in the cortex (3) or as a perforating capsular artery The trunk of the interlobular artery gives off two series of branches one to the glomerulus and one that is directly nut tent

The conclusions drawn re as follows

1 The coarser distribution of the renal vessels

conforms to the generally accepted teachings 2 The after at glomerular vessels ary in length and have to o sources of ori in (1) the trunks of the interlobular arteries and (2) the arcuate arteries

3 Glomeruli consist of a ramification of the afferent ves el converging t form the efferent within Bowman's capsule They yars in size Sometimes there are to in glomeruli and sometimes an atrophic arrety is di covered

4 The atrophic or aborted glomeruli are found in lo e proxim ty to the medulla and epresent glomer ult devoid of capsule whose sp cial function has ceased They now merely serve as conducting vas cular channels i om afferent to efferent vessels

There are four d stanct types of efferent vessels (a) subcapsular (b) cortical (c) corticomedullary nd (d) m dullary Each has its own particular mode of distribution

6 The arterne rectæ originate as efferent vessels from glomeruli situated chiefly in close relationship to the medulla though a small r percentage arise as efferent vessels from glomeruh in the corticomedul lary zone Thes vessels form most of the blood sup ply of the medulla but a small amount of blood is obtained from the lower branches of the plexus formed by the efferent vessels in the deepest part of the cortex

7 The arterix rictie are found in ome cases but their presence is exceptional

8 Direct nutrient vessels are of two types interlobular artery may end by directly breaking up into a terminal ramification surrounding the convo luted tubules of the cortex (a modification of this is seen in the perforating capsular artery) or branches may be given off from the trunks of the inter lobular arteries which after pursuing a short course and showing no evidence of a glomerulus break up

into a plexus supplying the tubules o All of the branches of the renal artery are not true end arteries as a return flow may be obtained by way of the posterior division when the organ is irrigated with physiological sodium chloride solu tion through the anterior division of the arters

10 The renal circulation is irreversible C D Holares M D

Foley F E B The D agnosis of Anomalous Renal Artery as a Cause of Upper Urinary Tract Stasis M s i Med 024

Anomalies of the renal circulation are common They may be abnormalities in the distribution of the renal artery or branches of the aorta Since these aberrant vessels cause pressure on the ureter or the kidney pelvis it is obvious that they may often cause hydronephro is Therefore it is import no that the condition be discovered before serious dam age to the kidney has resulted from long continued

distention of the pelvis Braasch mentions the pyriform dilatation of the pelvis and Crabtree a demonstrable constriction at the ureteropelvic juncture as being characteristic of this deformity The pyelogram in such cases is often found divided into upp r and lower hal e with the troublesome vessels coming off of the lower portion of the kidney and constricting the ureter or pelvis at the ureteropelvic juncture. I ain is a com mon symptom. The urine may or may not contain pus The diagnosis of anomalous renal artery is made on the basis of retention when all other cau es have been excluded by modern urological metho is

C D HOLMES M D Crowell A J Cystin Nephrolithiasis Report of

a Case with Radiographic Demonstration of the Disintegration of a Stone by Alkal nization J L ol 9 4 x1 545

The presence of a stone in the bladder or a shado v in the kidrey in association with cystin crystals in the urin suggest the diagnos s of cystin nephro lithiasis The cystin may disappear from the urine tempo arily Since cy tin is soluble in alkaline solu tions it is important to render the u ine alkaline and keep it so Pelvic lavage should be done every

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approach should not materially affect the incidence of recurrence It should be noted however that nephrolithotomy was performed on three fourths of the patients with stone fragments in the kidney which were missed at operation

That a technical factor is involved is suggested by the fact that in the operations in which a combined nephropelviolithotomy was employed there vere comparatively few recurrences (4 16 per cent) The thorough dramage offered by this operation must be

taken into consideration

Contrary to the general impression nephrolithot omy was followed by the lowest mortality only one death in 150 cases Serious postoperative hæmor rhage occurred in only eight cases in four it was so severe that nephrectomy was necessary

Renal fluoroscopy has been found of decided ad vantage in limiting the number of recurrences It permits the exact localization of small or multiple stones without the trauma which so often results from a long continued blind search for small stones or a fragment that has been broken off in the removal of a large fixed stone

Allemann R and Bayer R The Clinical Aspects of Malignant Turnors of th Aldn ys (Butrage ut klinik d maligne N erentumor) Zt 1 f t of Ch 9 3 V

The authors review thirty ei ht cases observed during the past nine and a half years. These in cluded twenty se en hypernephromata six car cinomata and four tumors that did not come to operation Even in spite of all modern diagnostic methods an early diagnosis depends upon the concurrence of particularly favorable circumstances The most suggestive signs are hæmaturia pain and tumor In 66 per cent of the cases reviewed the findings made on palpat on were positive. In the small number in which they were unce tain it was possible to establish the presence of enlargement of the kidneys by means of the \ ray For the I ray examination pneumoperiton um and pneu moradiography of the bed of the kidney are recommended According to Necker the coincidence of mobile kidney and gall stone disease often makes the dagnosis of upper abdominal tumors on the right side extremely d ff cult

The hamituria is characterized by its sudden appearance often years before there are signs of a tumor by its subsequent disappearance for months or years by the fact that nothing will affect its often considerable intensity and by its ultimate cessation Unfortunately patients at first frightened by such a hamorrhage are reassured by its sudden disappear ance and therefore do not seek med al ad ace. In other cases blame attaches to the doctor consulted because he does not consider the possibility of a neoplasm Even when the hamorrhage is severe the tumor masses may be very small

The pain is of a type entirely uncharacteristic of new growths For a long time complaint is made of a dull pain in the loins or the sacral region or of col c

in the course of the ureters which occasionally ceases on the appearance of hæmaturia (hæmorrhage into the tumor mass clots in the ureters) If hereas colic from calculi usually ceases with rest in bed the colic The great vari due to clots continues unchanged ability of the pain is often misleading

Hypernephrosis is manifested by late appearing cacheria which usually indicates the formation of metastas s In cases of carcinoma and sarcoma rapidly progressive cachetia is noted very early

In two of the cases reviewed there was varicocele on the same side as the renal tumor. The hyper pigmentation associated with hypernephroma which has been described by numerous surgeons was not observed. Metastases were found in the skeletal system and in the lungs. These are to be regarded as capillary emboli from the renal yein and yena cava and often arouse the suspicion of the presence of a hypernephroma for the first time. An increase in the temperature occurred in five cases Usually it was associated with an attack of pain preceding hæmaturis

The presence of tumor cells in the urine was never established with any certainty. A pyelographic examination with the use of 20 per cent sodium bromide revealed the characteristic tortuosity lengthening and abnormal insertion of the preters s hich are associated with tumors of a certain size

A differential diagnosis between the various malignant tumors of the kidney before operation is out of the question. All cases in which extensive metastases disease of the second kidney or a poor general condition do not constitute contra indica tions should be operated upon

The authors always attempt first to effect an extraperitoneal exposure by you Bergmann's method The fatty capsule and all lymph nodes with n reach are removed Transperitoneal nephrectomy is undertaken only when the presence of abdominal

metastases is suspected

The prognosis is depend at entirely upon early diagnosis. The authors do not hesitate to perform an exploratory exposure of the Lidney when a tumor is suspected and clinical and technical measures are of little and JANSSEN (Z)

Dabney M Y The Differential Diagnosis of Ureteral Stricture and Chronic Appendicitis The Differential Diagnosis of So th M J 1924 XV 1 439

Chronic appendicates and stricture of the right ureter are both characterized by chronicity digestive d sturbances pain in the right lower quadrant tenderne s over the right side of the abdomen and lumbar region and a normal or slightly elevated temperature and leucocyte count. In cases of ureteral stricture frequent bladder irritability is present in addition. The diagnosis of ureteral stricture is made by passing a No 7 ureteral catheter and then examining the ureter with a wax cuff catheter During this procedure the symptoms of stricture are reproduced



Prostatic calcult are usually small and multiple and may be mistaken for urmary calcult. They should be rayed in the postero-anterior position

Hydronephrosis is demonstrated by the injection of an opaque solution into the kidney pelvis

Renal tuberculous is generally identified by an arregular outline variability in the density of the shadors small shado is which are usually multiple or grouped and large shadows outlining the real lobulation over the entire kidney. It must be differentiated from lithasis Ordinarile differentiation is impossible without civilization and the kidney outline may be enlarged and the kidney may show lengthering with pronounced dilatation of the tubes or a moth eaten agont ance with solution encroaching upon or permeating the cortex.

Fuberculosis of the ureter should be suspected when dilatation of a ureter is found after injection of the bladder for a cystogram Children show such a filling normally.

Intrinsic and extrinsic kidney tumors cannot be differentiated roentgenologically. A pyelogram showing irregular loss of cally ces and distortion of the pelvis may be due to incomplete filling a tumor or

cortical growth. The characteristic picture of a kid not ytumor is an irregular prolonged extension of one or more caly ces to a point bey ond the normal. When the catter kadney is into level the pelvis may be reduced to a small mass with irregular strands of shadows in the form of a spider web. Poly cystic kidneys usually show a similar picture with enlarge ment of the kidneys shadow but the strands are less irregular and the margin i more rounded. The ureter may be long and curving over an enlarged kidney pole and may extend medially within the shadow of the spine.

Tumor of the bladder and hypertrophy of the prostate if of sufficient size will show filling defects in the cystogram

Diverticula of the bladder show offshoots or

accessory pockets to the bladder Usually the e are connected by a narrow lumen The roentgenograms should be taken in the direct and oblique positions

Ureteral abnormalities such as multiplicity dila tation kinks and angulations are demonstrated roentgenologically by organic ratheters or solutions.

Roentgenography is of prime importance in the diagnosis of lithiasis hydronephrosis tuberculosis tumor and diverticulum Louis



In the two ca es reported in this article electrical excitability was present. Zanoh beheves this was not a s gn of slight persisting function but the expression of medullary automatism. To explain the influence of the pinal cord on the preservation of electrical excitability of muscles he cires the work of

previous investigators The pathogenesis of ossifications in paraplegia is obscure None of the theories already advanced is satisfactory. In the author, opinion a toxic factor must be involved. In persons with paraplegia there are numerous foci and factors favoring the formation of toxic bacterial products which are easily carried into the general circulation. These toxins exert their pritative stimulus especially on ti sues with reduced vitality There is also a chemical stimulus Decalci fication is common in paraplegia and because of the blood stasis the calcium salts are easily deposited Why these assifications occur on the occusteum as they generally do and by their formation ceases after a time is not known II & BRENNAN

Makins Sir G Elmslie R G Bristow W R and Others Discuss on on Myos tis Ossificans Traumatica P R y Soc W d L d 924 S ct Orthop to

MAKINS An essential factor in the causation of myositis ossificans traumatica is a lesion of the muscle due to a blow a strain or overaction. The

moury may be trivial

The sites at which the cond tion most commonly
occurs are within the sheath of the quadriceps ex
tensor of the thigh and the brachialis anticus muscle
but it may develop in practically any mus le at
tached to home

Ossifications due to occupational injuries such as rider a bone or dancer's bone and the meta plastic ossifications which invade the muscles in cer tain forms of disease such as tabes are not true types of the traumat c form

The team to the team of the te

Vaccoscopic examination of the list with a the sheath and subt not of a muscle a mass of newly formed connet tive it sue surrounding a cancellous base. This mass is untime the nonnect d with the surrounding mu cle and usually continuous with the shaft of a long home. In some instances a spanyal lie fluid i found in the bursals of easi in the shaft of a long home. In some instances a spanyal lie fluid i found in the bursals of easi in the shaft of a long home. In some instances a spanyal lie fluid in the shaft of the sha

In the early stage microscopic evam nation reveals mainly connective tissue in the cond non of active proliferation. Scattered in this tissue may be found

chondroblasts and osteoblasts suggesting metaplastic bone formation and numerous bone cells

The surrounding muscle fibers are in varying stages of degeneration but signs of regenerative changes are seen in the multiplication of nuclei

The fact that the development of large masses of callus following comparatively trivial injuries to the bones occurs relatively seldom after such injuries undicates that the phenomenon is dependent also upon some special constitutional condition or id measurers.

The primary treatment in all cases should be complete rest and avoidance of anything apt to in crease the vascularity of the affected part. The general tendency of the tumors is to undergo spontaneous absorption.

ELUSLIE It is generally agreed that forcible stretching carried out in the course of treatment after an injury to a joint of muscle is an important factor either in the original production of the ossification or in the causation of ear extations of the condition In certain cases ossification may occur in a hæma toma Sensis is an occasional factor

In the treatment prolonged rest is important Early operations are to be avoided as they are almost invariably followed by recurrence

Operation should not be undertaken until the bone structure has ceased to show variations in consecutive reentgenegram and then should bedone only to remove a mechanical obstruction to joint movement Operation will seldom be necessary be fore the end of a year

Case reports are discussed by Bristow Pugh Todd Fairbank and others
HERMAN C SCHUMM VI D.

Ballance Sir II An Intramedullary Capillary An gioma of the Shaft of the Humerus Leading to Spontaneous Fracture Treated by Locat Resection and Bone Grafting B: J S g 924 n 622

The angoma reported developed in the patients is thretenth year of age following a crushing injury to the humerus. While the case was under observation a spontaneous fracture occurred. Ten days later a graft from the fibula was placed in the case was versionation eight years after the overation above versionation eight years after the overation above the control of the state of the case
Disability was due chiefly to the loss of humeral substance There was no apparent recurrence of the tumor ROBER V FUNES VI D

D venport C B Taylor H L and Nelson L A R dio Ulnar Synostosis A h S g 1924 vi

Radio ulnar synostosis or congenital synostos s of the proximal ends of the radius and ulna is rare In the normal pronated forearm the radius crosses from its position near the lateral margin of the humerus to the radial side of the hand In proximal synostosis the radius and ulna are fuse I in a position of incomplete decussation so that complete supina

tion 1 no longer possible

The authors report a case of bilateral radio-ulpar synostosis in a boy o years of age The family history revealed that the chill's father one naternal uncle and t o of his sons another paternal uncle and his to o sons and a third paternal uncle and his daughter and two sons had bilateral radio ulnar synostoses From this case and fourteen others of lke nature the authors conclude that radio ulnar synostosis is here litary

The o teogenic defects are of various types. In the first type the radius is strongly curved and the radial head distinct. In the second type which is by far the most common the radial head is absent In the third type which is called the dislocated head typ the head of the radius is well developed

but hes in front of the trochles instead of articulat

ing with the capitellum Comparative anatomy demonstrates that the appendages of man are derived from the fins of fishes and the appendicular skeleton is derived from the sk letal support of the fins. The relations of the radius and ul a in theh gher vert brates are a mable In reptiles these bones are distinct while in b ds they are fuse ! Among mammals they are distinct in the monotremata and marsumales. In the ungu la es the ulna 1 more or less rudimentary and in the rummants is fixed beh nd the radius. In the horse it is still more reduced. In ro lents the rad us and ulna are distinct. In the insectivora they are fused distally

In the human embryo of t or a weeks the arm buds appear n arly perpendicular to the body axis Later they become flexed The arms are turned toward the ventral side of the chest 1th the radius

and thumb cephalad to the ulna

The radius and ulna a use from a single precarti laginous m senchymatous plate and although the transformation of this plate into cartilage takes place from two distinct centers the cartilage form ing tusue unites them In cases of synosiosis the process of chondrification goes on across this carti lage forming tissue and forms a ca tilag nous union Ossificat on produces firm bony union

Persons ith radio ulnar synostoses have other bony defects. All of the members of one family cited here short of stature Some of those of another fam ly p esented numerous exostoses. In a third family several of the membe s had that foot Various other deformities appear such as club-foot bow I g

club-hand absence of fingers etc Evidence seem to fa or the c nclusion that rad o ulnar synostosis a trait that depends on one two or three factors is usu ily an autosomal

dominant and is partially a x limited The authors conclude as follows

Rad o ulna synostoses vary in degree Two types may be d stinguished (1) the type in which the rad at head is absent the proximal end of the radius being fused with th ulna and (2) the type in which the radial head is displaced toward the flexor side of the arm

2 In mammalia the radius and ulna are fr quently united 3 The radius and ulna develop from the same

precartilage rinte 4 Abnormal develor mental impulses which lead

to synostosis are indicated by other defects 5 Genotypical differences in families vary

Males are twice as apt to be affected as females

7 Consanguineous matings are found in synostotic families

8 Rad o ulnar synostosis appears to be a dom nant partially sex limited trait

JOHN MITCHELL, M D

Kroglus A The Pathogenesi of Muscular Wry Neck (Z r P th g es d s mu kul en S hel hales) tel ch a Sc d 5 4 ls 407

In the author's opinion the anatomopathological process responsible for muscular torticollis, which is manifested as a connective tissue or tendon to ma tion at the expense of the muscle to sue having its origin in perimy sium internum is not the result of an ischamic muscl d generation. The striking resemblance between this process and the gradual change i muscular t sue into tendinous tissue which occurs in the foot muscles of hoofed animals a long time after birth the hereditary character of the condit on and its secration in some cases with other d sorders of development suggest that it has its origin in an anomaly of the muscle blastema

Moore S On the Incidence of the S cralized Trans erse Process and It Significance Rd ! 024 D24

study of Moore has mad a compr he si anomal es of the lumbosacral pine Morb d ty of the lumboster I spi e s so common that 9 p r cert of the pat ents coming to th Washington University St Louis \r y departe nt wer sent f rexamina ti nof the los er pine VI ore believes that low lack pain is due to the lumbosacral jo nt rather than the sac o hacs In a tudy of 3 640 plates 117 cases of sacralization or lumbarization wire to nd. A d. section of a nety two c da rs r caled six cases of th sanomaly Of the zz ases fo nd 1th the \ ray b ck or ners symptoms w r prese t n 6 per cent and scol osis i slight digree was noted n 3 6 per cent Mo re c neludes that persons 1th sacraliza tion should follow o cupat on fre from ha ard and CHEST R C SCHNEDE M D

Bearse C Ost myelitis of the Ilium in Children
B t M & S J 924 cx 883

back strain

Osteom; elit s of the thum occurs in only f om 2 to 7 per cent of all cas sof o teomyelitis but the il um is by far the most common site of osteomyelitis n the nelvic girdle

Trauma is sometim s an etiological factor I other cases the cause is a distant focus of infection and in a third group metastasis following infection of another bone plays a part. The organi m most commonly found is the staphylococcus

Because the ilium is a flat bone early perforation is common. As the disease progresses the perforation may enlarge or several perforations may occur

The onset may be sudden or insid ous and the re action may be mild or severe. The most prominent symptom a pain in the region of the hip This is as sociated with fever chills vomiting and night cries Tenderness is noted over the affected area At times the reaction may be so severe as to simulate a general systemic condition without localizing features. At other times the only sign may be a slight limp. On physical examination in acute cases exquisite tenderness over the il um may be found The point of greatest tenderne's is usually just posterior to the greater trochanter Spasticity of the muscles of the buttock tenseness in the groin and increased local heat are other signs. A careful examination of the hip will reveal motion in the moint which shows that the condition is extra articular. In chronic cases the roentgen ray will be of help

The condition is mo t commonly in taken for arthritis spriin maningitis tuberculosis f the hip scurvy and malignancy

The most frequent complications ar the pocketing of pus metastatic infection of other bones and arthritis of the hip Erosions of the femoral artery

and phlebit sof the flact ein are others.
Ceneral hygenic measure for the systemic reaction and general surgic I principles for the local
ized condition constitution the basis of it atment
than Constitution of the basis of the street of the system of the street of the system of t

No & Josserand and Vignard A Ca of Deforming Ostellis of the Neck of the Femur (u un dostét lét mat du limat) Reo d'it p

The nuthers are that of a guil very of ge as under other a ten for the a ctear. The condution becan with light de alefication of the neck of the femur in the region of the epith, call not it the end of a ver the 1 all it at n mark d and liftuse and it femoral not howel the change and the control of the conductivity about it in do internal pole. We ment the read a nin kin in of the neck. The neck is a new and the neck that the conductivity and the conductivity and the conductivity are end in the conductivity and in the light of the and in half ver was fill need by recovery with limit top from on into the 1 g.

If w similar ca es ha it on r ported in the lt rature B some orthoped st the cond tion h is be n regarded as tubercul or but in the authors op alon it is an osteochondritis. In certain cases however it may be associated with tuberculosis

The authors beli se that the cervi al 1 pe of osteochon it its represents a tran tional stage be tween o teoch ndr t and the cox ara f the cence.

WABTNAS

Marconi S Angular Ankylosis of the knee (Sulle a hilosi ng lan del ginocchi) Ch doga i d mo me! 10 4 m 383

The author reports ten cases in which he operated for the correction of angular ankylosis of the knee toint

Frimary ankylosi which occurs in knees previously normal is due chiefly to mechanical factors such as muscle and gravity and to a less degree to stall phenomena such as abnormal growth of the consueration cartilize.

Secondary ankylosi in ually o curs in re-ected or arthrotomized knees already ankylosed in extension and is the result of static mechanical and vital

factors acting together

The treatment should consist 1 rst in attempts to prevent deformity by means of traction apparatus and plastic casts. If this fails resection should be done in the cases of young persons as a leforming analylos of the knee will otherwise result. In the treatment of an already estibilished deforming, preference, should be given to operative rather than one-operative methods. The procedure used mixed to a laptice of the particular case appears to the requirements of the particular cases.

The hinged osteodom of Caleaze and the ingular of cotomy of Comisso give good results particularly in young subjects in whom it is desirable to preserve the grot th cartilage. The first is best for a vere deformities and the second for thos which are less marked.

Among the intra-articular operations the curvalineat resection of Hellerich is best as it allows correction of the more occentuated leformities without much shortening and without injury to the vasculoneryous tissues.

The Hellerich Codi illa osteotom; can be em plove I when delormity is not very marke I It requires a careful technique as it pulls heavily upon the vasculonervous connections but it does not in crease pre-existing shorten a

In the leformity of genu recurratum osteoplastic resection or the transplantation of a Morestin i edge graft may be the method of choice

In a case of comf ine I deformity varus an I valgus osteotomy with the tran planat on of a wedge graft has given the originator of the method very good results

Arthrofisus should be done only on patients in h m the extensor apparatus is functioning an lon atticulations which are free from tuberculos s and in which the morbid process has not been active for a long time.

Lecène P and Mouchet A The P thological Anatomy and Pathogenesis of Tursal Scaphold itis (La scaph lite to ner anatom patholoiq e t pathogéa) Ret do th p 10 4 axis 105

Among the fifty cases of tarsal scaphor litts reported in the literature the authors found only one in which a microscopi examination was mis le in this i stance the picture was described as that of anamic necrosis of the scanboid a phrase which

has little meaning

The authors have recently treated a case in which they were able to make a complete histological examination They concluded that the process is an attenuated osteomyelitis W A BRENNAN

SURGERY OF THE BONES TOINTS MUSCLES TENDONS ETC

Pigeon B rnard and Rouvillois Six Cases of Gon rrhoeal Arth Itis Treated by Arth tomy Combined with Scrotherapy (S ta darthrit go ococciquet te pi larth tm comb e 024

In three of the six cases reported the knee and ankle were involved and the condition was of the synound type with a serous seropurulent or puru lent intra articular effusion containing fib inquis masses The general symptoms included fever Compicte recovery result d In one case there was acute arthritis of the wrist with diffuse persarticular in filtration and decalcification of the bones but little articular effus on The fun tional result was satis factory The two other cases represented an inter mediate type of arthritis of the knee with consider able articular effusion combined with diffuse peri articular infiltration. A satisfactory functional result was obtained in one but in the other in which both syphilis and gonorrhees were present, the treat ment fa led

Rouvillois believes that conorrheral arthritis whatever its anatomical type is a local man fe tation of a general infection and that therefore the logical treatment is scrotherapy. The serum should be appli d to the synovial membrane. In some cases arthrotomy may be necessary to its prop r appli-

cation Arthrotomy is not always essent al but is often and cated to relieve a joint of its contents especially purofibr nous plaques which encumber and enclose the joint and to expose inaccessible diverticula. It is better than puncture for the introduction of serum it renders the joint condition visible a d it favors early mob lization. It is particularly indicat d in cases with marked effusion and distention. In a ute arthritis with perjarthritis and slight or no effusion its advis bl tv is questionable but it gave a good result in th author case of wast in of ement of this type. The intermediate types of arthrit's with abundant effusion and periarthritis and the purely synovial types are suitable for arthrotomy arthrotomy wound should be sutured primarily ex cept in the frankly purulent cas s in which the wound should be left open and Willems immediate active mobilization should be instituted. Also in cases of closed arthrotomy wounds early ctive motion is prefe able to p ssi e motion. A successful result dep ads to a cons derable deg ee upon phys iotherapy begun early and continued for some t me WALTER C BURKET M D

Fouilioud Buyat The Evolution and Treatment of Justa Articular Tuberculou Lesions (E olu to t tra teme t des le 1 tub reul u es ja ta rticul es) Rev d 11 9 1924 XXXI 113

In cases of suxta articular tuberculosis the princ pal lesion is a focus limited to one of the assents extremities the other extremits or extremities rema ing normal The author has collected thirty four cases Of the twenty eight which were treat d surgically the le ion was near the knee in sixteen the tibiotarsal articulation in two the elbox in eight and the wrist in two Vine were operated upon before the joint became 1 wolved in five of these recovery re sulted from one to four months after a single opera tion In the four others the joint was protected but recovery was greatly delayed being obtained only

after several operations The beneficial effect of operation was especially e adent in a series of cases in which after operation the e was regression of already present articular symptoms. However in some cases of this kind synovial invol ement not of nically evident at the time of operation made its ppearance later in spite of the removal of the diseased soft p ts In for c ses of the kind in which the lesion was near the knee the initial symptoms did not appear until at least a month after the operation. It is very probable that the synovia were infected in sp te of the ab sence of cl n cal signs and that the operation was

effective by suppres ing the causative bone lesion.

In four of the twenty e bt cases op rated upon severe arthritis developed. In two of these there was an articular reaction at the time of operat on There fore prudence is necessary in giving the prognosis of

juxta articular les ons Many severe ca es of arthritis are cured after the removal of the causative lesion but some continue

to progress de p te operation In the six cases reviewed which were not operated upon but were treated by orthoped c m thods good progress and an e cellent funct onal result were obtained Orthopedic treatment may b applied to suppurative c ses in which surgery is usually contra ind cat d W A BREN

Serra G D rect Neuroti tion of M cle (La dett d1 mu 1) Ch ea d more 924

The surgical t eatment of paralyzed muscles 5 ba ed upon op rat ons on the nerves and muscl s and tendon plastics

The author revie sexperim ntal and clinical vork on direct neurotiz tion of mu cle and reports the re sults of a numb of experiments on rabb ts a tifci ! ly paralyzed by neurect my The obj ets of his in ve tigation w re (1) to check up find ng of others (2) to find the best point for perce implantation in muscle from the standpoint of functio (3) to deter mine whether part of a nerve is sufficient for th neurotization of muscle (4) to dete min whether d rect neurotizat on is po bl by means of f ce auf pl st cand homoplast c transplants and (5) to deter

mine the length of time required by an enervated muscle to become neurotized The conclus ons drawn from the results are the following

I Direct implantation of a motor nerve is very effective in restoring function even when the muscle has been paralyzed for some time (in rabbits a may mum of one hundred and thirty six days)

2 A section of about one half will meet trophic and functional requirements

3 The same result can be obtained with an autog enous or homoplastic tran plant of nerve as is given by a neighboring healthy nerve implanted directly

The point of implantation of the nerve in the muscle is of little importance with respect to the ultimate result. It makes no difference whether the implantation is made at the origin at the point of entrance of the nerve or in the middle of the mass of the muscle but the effect appears to be less definite when the implantation is made in the vicinity of the tendon expansion

In conclus on Serra states that various factors will hmit the general use of this method. In order that a motor nerve may be mobilized eas ly and its utili zation will not mean a loss in other important mus cular regions the paralysis must be limited to one muscle or to two neighboring muscles The method of direct nerve implantation does not interfere with suture and plastics of ner es but it becomes the method of choice when the p riph ral stump of a paralyzed n rve cannot be traced or is so altered that it is unfit for use II A BREALIN

Rocher II L Arthrodesi of the Shoulder in the Treatment of Paralytic Loose Shoulder (L. th. rodèse de lép ul da let t me t d lépa l b l lante par lytique \(Re- d \) th \(P \) 9 4 \(SI \) 93

The author has performed arthrodesis of the shoulder in four cases. In three it was done for paralysis of the shoulder following acute pol omyels tis and in one for congen tal stiffness with deftor i aplasia One of the operat ons for pa alysis was per formed too recently to warrant c nelu ons as to the end result. In the other two cases the re ults have been excellent osseous ankylosis has been obta ne l and function is as sati factory as ould be expected The author discusses only the cases of paralysis

Of the thirty one cases of arthrodesis of the shoul der r ported in the literature twenty eight had a good result and five an unsatisfactory result

The various types of operation are discussed Rocher does not see any ad antage in osteosynthe is with metallic w re for if there s bone fusion the wire is of no value and if bone fus on f ils the wire does not overcome the functi nal disabilit

W A BRE NAN

Walden treem II The Treatment of the Tu berculous Lyphosi by Osteosynthes Grad al Correction At A & S d 1924

In the last ten years the author has treated eighty cases of tuberculous kypho is by a pecial method

consisting of two stages (1) gradual and complete correction of the Lyphosis by the application of pressure while the patient is lying on his back in a Lorenz plaster of Pans bed (Finck) and (2) fixation of the corrected di eased segment of the spine by means of a straight tibial graft (Albee) method which he calls osteosynthesis after gradual correction is supplemented by general treatment for the tuberculosis including wholesome food sun light and fresh air

Children with tuberculous spondylitis who come to be treated during the developing stage of the tuberculous process should never be operated upon directly but should be kept in the Lorenz plaster bed until the tuberculous process in the vertebræ is checked (one or two years after the first appearance of the symptoms) This i advisable in order that the extent of the tuberculous process may be known and the length and thickness of the graft adapted to it allo in order that the pressure between the tuberculous vertebræ may be neutralized and the kyphosis then corrected so completely by very gradu ally increased and painless pressure that a straight tibial graft may be implanted

The treatment de cribed gives a straight back and an excellent functional result in 80 per cent of

The operation 1 performed only if two or more

vertebræ are infecte? In cases of less extensive tuberculous proces es it 1 possible by means of a corset to prevent the corrected kyphosis from re appearing This is seldom possible when there is ex tensive destruction of the vertebra

Children under 5 years of age should not be operated upon They should b kept in a plaster bed until they are 5 years old even if the Lyphosis is corrected and the progress of the tuberculous process ha been checked Operation is contra in I cated also in the cases of debilitated patients and cases with fistula

Before the operation the infected vertebral bodies should be carefully localized in relation to their pinous processes as the final re-ult is dependent chiefly on osteosynthesis on the infected vertebraand on two (sometimes three) untebræ above and two (or one) b low th m

Careful attention must be par I to the postopera tive treatment as the strain on the graft will be much greater in these corrected cases. After the operation the patient should be in his plaster bed for two or three months during which time the pressure on the corrected segment should be con tinued

At the end of that time he hould be given a plaster corset to wear for another two or three months and the pres ure should be continued by means of cotton wadding During this period he will gradually learn to wall. Finally he should be given a cloth corset with fi ed steel rolls to wear for one o two years

This method of treatment is be t carried out in a special hospital

Tengwall E Two Cases of Osteosarcoma in One of the Long Bones of the Knee Joint with Large Resection of the Bone Act ch 15 a d 1924

The author gives an account of the cases of sarcoma in one of the long tubular bones of the knee joint in which by extensive resections of the disease I

bone and knee point it was possible to preserve

Cast: was that of a man 45 years of age. A complete extraorpular resection of the knee point in cluding, so cm of the femur was done and the end of the letter was forced in the the ecooped-out upper end of the titus. The pathological diagnosis was guint cell astrona. Examination two years and two mouths after the operation showed complete healing solvere than the other but there was full mobility of the hip and foot joints and the patient was able to walk well with the and of an extension book.

Case 2 was that of a woman 34 years of age. The pathological diagnosis was large-cell highly mitotic sarcoma showing in some areas numerous giant cells The author resected the knee joint and the di eased upper end of the tibia including the immediately surrounding soft parts to the extent of 12 cm. The upper portion of the fbula was then denuded the head of the fbula sawed through in an antero posterior dire tion, the fibula fitted into a groove chiselled out in the posterior portion of the external condyle of the femur and the tibia fitted into a cavi ty chiselled in the intere naylo d fissa of the femur Light months after the operation no recurrence could be detected either clin cally or 1 ith the \ ray The patient's general condition was excellent and she had gained 8 kgm in weight. The leg operated upon was 17 cm shorter than the left leg but the nationt was able to walk very well with the aid of an extension boot and a cane A year after the operation a recurrence developed and two months later death resulted from sarcomatosis

Fieschi D Substituti n of the Fibul for th Tibia (Pr ne po (ibi) Chr d g di mor m to 1024

I reschi states that the operation of transplanting the fibits in the place of the tibia should be termed the Hahn Codivilla oper tion as Hahn devised it in 1883 and Codivilla systematized its application in 1997

This actuel reports the histories of five cases subpected to the operation. Case : was that of a 1s yearold gurl one of whose thir with the except on 0 it for emphases was removed surgealls on according to the emphase was removed surgealls on according to the the table with extens e 1 cera to so of the soft parts in a child 0 jears old. Cases 3 and 5 were cases of extensive outcomed its in children 14 and 8 years old respectively in Case 4 that of a bow 3 ged 10 years unpteal removal of most of the of the formation cause of a seneral acture with fistula formation. In all five cases excellent functional and asthetic results were obtained. The \(\lambda \) ray showed that the f bular graft became hypertrophied

In I tesch is opinion the problems of severe and extensive ostconwellists of the sid a are solved definitely by the application of a folding raft. The operation is particulated applicable however to triumatic cases such as Case 2. In this connection attention and the definition of the danger of late infection in trainmate.

cases showing all the signs of a complete cure. In children effort stimulus and the stimulus from the complementary zones of the super or tibial extremity favor the continuation of fibular growth. The operation described is recommended especial.

ly to the consideration of the general surgeon

FRACTURES AND DISLOCATIONS

Campbell W. C. Fractures of the Humerus. In

The treatment of fractures of the humerus is of unusual interest on account of the impos thinty of flecting complete immobil zation. Non un on occurs more often in the shaft of the humerus than in any other long bone.

Campbell's paper is based on 314 fractures 31, in the lower end of the humerus 36 in the head and 147 in the shaft. Of the 147 fractures of the shaft was in the middle third and thirty-eight in the lower third. In the upper third the upper third the paper third for the upper third the paper third for the upper third. In the lower third is upper third the paper third person inside displaces the prastinal fragment outward. In the fower third the proximal fragment outward. In the fower third the proximal fragment outward in the force of gravity through the eight of the dependent fore arm. The conditions of the reviewlosp ratheres is grided as an important factor but the davage of permanent injury to this nerve is probably over

rated The fracture may be spiral ablique transverse or communited. In the upper third transverse in reasons a suite so per cent of the fracture. Spiral it cluttes so created the fracture. Spiral it cluttes occur most frequent) in the middle third. Communition is most common in the middle and lower thirds. Compound fractures are by far most frequent in the liver that II and, one of the case tower of way the rest frequent of the communities of the case tower of way the rest frequent of the community of the community of the communities of the case to the case of the

The treatment of fractures of the humany does not all first from that of irretures of other long bones e cept th 1 the problem of fination is rore of field it is not always possible to obtain complete approximation of the fragments but 50 per cent as subscent to res are perfect function II a plaster cast is used after reduction it should extend from the palm of the hand and down, the body to the crest of the litter is majorital always be file ed from ool to 20 per cent of the file of the file of the control of the file of the control of the

employed with pressure to maintain abgoment. Under no circumstances should the ellow be placed in extension especially in fractures of the lower thand as this position throws the lower fragment forward in dangerous proximity to the brachial artery. If the deloted is intagonate the shoulder should be abducted if the pectoral are antagon it the humerus should be rolated inward in the majority of eases the laber for the properties of the prop

Adhesive straps are applied to the arm from the point of fracture to well belov the elbov. After adjustment of the splint and sufficient fraction these strap are attached to the steel bar. Thi apparatus is well adapted to fractures of the upper and middle third and of value in convalescence from fractures.

of the lower third

Open reduction is seldom necessary in single fractures. In every case of fracture the apparatus applied should be removed for inspection before consolidation is complete in order that deformity may be corrected. As soon as unon is well ad anced the splint should be removed for daily massage and active and passive motion.

When a fracture reaches the stage of permanent pseudarthro: only operative measures are indicated. The autogenous bone graft alone is worthy of consideration as a means of internal fixation as it

is well tolerated and promotes osteogenesis In the author's cases an ample incis on s made for exposure with routine dissection and removal of all intervening scar and fibrous ti sue. The fragments are pared and each medulia is reamed out until normal tissue is reached. An inci ion is made through the periosteum on either fragment to several inches and the periosteum stripped back from / to y in is m the circumference. With a chiscl shavings are removed until a continuous il t surface has been formed From the tibia is taken a massive graft of the desired length and this is split lo gitudinally to form a thin inner strip of endost um and a heavier outer plate of cortex The str p of endosteum is pl ced in the medulla so that it b idges the site of fracture F om the uter plate strip is removed to prov de six or eight autogenous bone nails The re maining portion i held to the flat surface of the bone fragments to bridge the facture. Drill holes are made and fixation is obt ined by the insertion of squa e pegs in the round hol s In add tion hromi cize I catgut sutures are pas ed around the bone and graft Any rem ining end st um is brok n up into small shavings which a e applied to the ite of ir cture

External fixation is left in place to eight weeks For six weeks a light brace is worn

To carry out this tedious procedure a team of trained associates and a most r gid instrumental technique are essential. It is not a one man operation. It was used in twelve of the author see enteen cases of unun ted fracture and was very uccessful.

R C LOVE GAN M D

Speed k Fracture of the Head of the Radius im J S g 1924 xxvvii 57

Fractures of the head of the radius may be complete or partial. Complete fractures are further subdivided into (1) partial or marginal in which one or more fragments are dislocated and (2) total in cluding communitions or crushings with deformity of the head. In necomplete fractures there are fissures a high usually extend into the neck the fragments remaining more or less in contact.

Fractures of the radius occur most commonly in adults and seven times more frequently in males than in females. Associated with them are other injurie which often are so magnified that the fracture is not

diagnosed

In the order of decreasing frequency the lesions of the marm are fracture of the upper shaft of the ulina fracture of the coronoid or olectamon process or of both fracture of the lower end of the humerus fracture of the radius at any level dislocation of the head of the radius and dislocation of both forearm hones

Fair retention of the normal configuration of the radial head is essential to the function of the elbow joint. For its rotary motion it must be perfectly round to fit into the radial notch of the ulna where it is held by the annular and capsular hgaments.

In almost all fracture the shape of the head is changed and when callus is thrown out the head be comes so thickneed that pronation and supmation are lost. As joint motion is restricted the capsule undergoes shrinkage and interferes further with the full use of the elbow. Associated lessons are frequent

complications

In cases of isolated fractures the patient usually holds the arm well vi the hand no oderses of flexon but is able to flex and extend the arm without pain. As a rule is thing and certon more redelaxed two or mo e days. The fracture can be diagnosed because the patient hesitates to supmate or pronate the forearm supnation causes particularly severa pain referred to the head of the bone. There is exquisite tenderness over the head and crepitus may be felt when the redducts is postated.

The course of these najures is progressave loss of junction. In neglected cases analysioss of the elbow frequently result. In the cases of children and adolescents operation is routin indicated. Bis direct pressure the fragment may be forced up into more or pressure the fragment may be forced up into more or pressure the fragment may be forced up into more pressure that from texte to foruteren day's active motion is begun especially to re establish pronation and sup nation.

In the cases of adults unless the fracture is a mere crack r section of the head is indicated primarily. The earlier this is done after the diagnosis the petter the function

Speed rules are as follows

I Remove all broken and fragmented pieces wherever they he in the joint

2 Remo e enough bone to insure freedom of

Avoid injury to the capsules

4 Be sure to have the annular ligament intact as this belos to pre erve the joint contour

5 Spare the radial nerve and the in crition of the

6 Clo e the joint snugly

fle ion of the wrist

7 Maintain the arm in a position of flexion and full supportion by means of a molded plaster-of Paris splint for from five to eight days. Then remove all splintage and encourage active movement.

R C LONERGIN M D

Manon M Fractures of the Trapez id in Wrist Injuries (L s fr tures du t spèz d les tr u maissmes du poign t) Rer d'o th p 19 4 x 1 127 Trapezo d'fracture in Wrist Injuries is rare. From

Trapezo d fracture in wrist injuries is rare. From a study of the joint movements and a review of the reported cases Manon has ome to the conclusion that fracture of the trapezoid is due to railal hyperinclination of the hand associated with dorsal

The case reported in this article was that of a man who fell from a car on his right hand. There was moderate aveiling at the middle of the wrist with an elevation in front of the long abductor tendon of the humb. The projection was painful on pressure and

when it was reduced it reappeared. Traction on the themb in abdiction reduced the mass momentary. The \(\) ray showed a vertical fracture of the extensible subcrossity of the trapezoid with neutward angulation of the fractured fragment. The thumbin int position of abdiction was subjected to continuous extension for \(\) etc. days and the apparatus then removed. Complete recover vrestitled after two months.

W A BREN AN

Langdon J F Traction Fracture of the Lesser Prochanter V b ka Stat M J 1924 x 8

Langdon reports two cases Only twenty fi are recorded in the literature Langdon's cases were those of boys 12 and 16 years old In both the murry was sustained in Funning

The condition occurs principally in youth before the epiphysis of the lesser trochanter is firmly united. The cause is a sudden strain on the shoposat must be causing avail one of the lesser trochanter. V per do nomonic ugo is insubility to flex the affected limb in the sitt in position which I due to the fact that the inspeass which produces this motion in detached with the limboass which produces this motion in detached with the high feed and abducted.

BEVERIDGE II MOORE M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Bull P A Diamosed Emb lus of the Left Renal Artery Rephrectomy Sudden Death Si teen D 35 After the Operation (D g o to ite te Emb lu det lask n A ter re als Sphrektome Mors ubtan a 16 T g h der Ope 110) Zi h f al Ckr 10 4 x 21

The onset of the disease was eastle as an nephro hasse with strangury and cook. Later the pain ceased. Loss of function of the left kidney was determined be urteral eithertraition and a test with indipotarmine. The renal pelvis which contained 7 cero of urine coult be easily cathete ized. The diagnoss of embolis was made becau e of a cer sit on the country of the

Thompson J E Aneurism of the Mac and Femoral Arteries A S g 924 lxux 884

The author reports three cases of aneurism of the il ac and le noral arteri s which are of unusual interest

The first was a traumrite arterior enous aneutran of the femoral sescle in the middle portion of Hunter canal Both the femoral artery and the term and branch of the projuda femora communicated directly with the femoral ening by separate fishulous openings. Nots of the arter isl blood from the femoral arte was passing through the opening the opening the projudal view and the heart po olding a very feeble circulation in the Le distal to the less on

Atop ration i was planned to make a transvenous suture of th it tulous op mag into the artery but because the e was some question as to the efficiency of the collateral circular in this po ordere was abandon d and astead the femoral artery as mere abandon d and astead the femoral artery as mere though the ope aton ital d to able the though the ope aton ital d to ablu off every avenue of communication between the arter all and verous of communication between the arter all and verous of the profunds or one of it is marked in the profunds or one of it is marked in the profunds or one of it is marked in the profunds of the form the condution of the foot improved rapidly the ulter healed up and the patient was discharged at the ind of two months able to walk without discomfort.

The p ese ce of such an aneurism places an extra burden on the heart to keep up the circulat on and blood pr sure in the foot Cardia hypertrophy and dilatation often result

The second case was a case of spontaneous an ur ism of the e ternal if ac artery and the upper portion

of the femoral arters, which was completels consolidated proximally but open dt ally from the origin of the profunda. At operation the external hace artery and ven were exposed extropersionally and ligated the femoral artery and ven were lighten than the proper third of the tingh and the entire aneutram was removed. The patient made a good recovery but a troublesome cedima alway spressed. The author believes that in this case it would have been vier not to operate as the aneutram value of the properties of the properties of the properties of consolidation and under such circumstances the femoral vem would have been kept intact and the intense criticans of the few would have been avoided.

In the third case there y as a spontaneous aneur ism of the distal portion of the common thac artery and the entire length of the external il ac artery. As ligation of the common that trunk (left) six months previously had failed to effect a cure the right internal ibac arters was It ated with the bone of cutting off the anastomosis bety een the branches of the right and left internal iliac arteries. This procedure also y as unsuccessful. At a third operation an attempt was made to ligate the femoral artery above the origin of the profunda. The profunda came off unusually high just below Poupart liga ment and in the attempt to ligate the femoral artery which was very friable the anguri mal sac was opened and a severe hamorrhage resulted. In order to control the proximal circulat on the abdomen was quickly opened and the aorta compr ss d vith a temporary ligature. The compression of the aorta failed to stop the pulsation in the sac. It was then necessary to open the aneurs mal sac widely without control of the proximal circulation. After consider able difficulty the neck of the sa was heated and the bleeding was stopped by ligation of the internal thac trunk

After ligation of the common threatery (left) blood passes to the lover extremity on the same eathrough the lumbar branches of the abdominal aortathrough the crumfles this and middle scaral and through the crumfles this and middle scaral and through the superior and inferior epigastric arteries. The internal this extery can be the sufficient causing The internal thin and the parts of the body is supplied to the conditions in the parts of the body is supplied to the body is supplied to the body is supplied to the parts of the body is supplied to the parts of the body is supplied to the body is supplied t

CYRIL J GLASPEL M D

Keller W. L. Combined Extirpation and Oblitera tion in the T catment of Varic se Veins An S g 19 4 large 907

Soldiers are very prone to develop varicose veins because of the nature of thei occupation. The presence on a solder a body of the linear scars which follow the usual operation for variouse view in a objectionable because they may proone a source of critation under the leggings they may be panied if some of the cusarous nerves are caught in the secrtissue they may interfere with the full freedom of locomotion because of the formation of adhesions between the custarous tissues and the under lying mustle planes and they may offer an excuse for maliagening.

For these reasons the author set about to devise a procedure which vould effect a cure without leav

ing a series of linear scars

I seemlad for the cure of varioo e cenn is complete obliteration of the lumen of the vein and of all of its cunnections with the deep circulation. It is question able whether or not it is necessary to remove the various exessel itself. The author a method of treat whether is a follows.

The varicose vens are outlined with a 5 per cent alcoholic solution of brilliant green while the patient is standing. The first step con lists in the removal of the internal sophenous and other non fortious veins by the inversion method which is practically the same as the will known Vayo vein stepping operation.

The secon I step consists in passing a continuous suture of strong braided silk No 1 or 2 und 7 the vein and out the opposites de and then b ckin front of the vein subcutaneous), and tying it at the starting point after it has encircled the entire veil from this point in the surface of the order of the

Such a suture includes all small literal branches entering the main vessel and effects complete collapse of the vessel walls. The injury to the intima by the needle and I gatue pressure insures almost complete obliteration of the dilated lumen. All

sutures are remove I on the tenth day

Some of the advantages of this intello are its simplicity the absence of scarring following the operation oblite atton of the vessel lumen which renders recurrence traposable and the ab n e of painful subcutaneous areas. It is applicable who note methods cannot be used because of marked tortucioneses of the venu or a fraible condition. If it walls. While it is more time consuming than other types of operatin its final results are more sait factory. Carl Gal. L. M.D.

BLOOD TRANSFUSION

Rosenthal N and B h G Parado ical Slort ening of the Goagulati n Tim of the Blood After the Intra nou Admini trati n I So dium Citrat 4 k I I M d 9 4 xx 535

Sod um citrate when administered intra-roously in large doses produces a pronounced and progres s ve shortening in the coagulation t me of the blood which usually reaches its maximum within one hour and may persit for many hours. The coagulation

time then slowly returns to normal within twenty four hours

This action is r o as the opposite of that occurring is ritro I is probably dependent on some effect on the blood platefets. The fatter are not directly destroyed by the citate but are damaged by con tact with it. They are then removed from the circulation by the splical and other organs and destreved their thromboplastic contents being gradually lib erated into the circulatine flood. The theore is

based on the following observations
1 In the test tube sodium citrate does not de stroy the platelets but affects them so that they are preserved and are they fore more easily counted

2 Within a few minutes after the intraver's injection of sodium citrate the number of blood platelets often begins to decrease. The maximum re luction is usually obsired after from ten to fifteen minutes. As a rule the number returns to normal after from one half to one hour.

3 As the coagulation time is hortened incr as ing amounts of free thr imboplistic substance probably derive I from the platelets appear in the blood stream.

4 No changes in the other fact is concerned in coagulation such as callium f bringen and antithroml in are demo strable.

5 The increase in the thromboplastic agent cytox me and the shortening of the co gulat in time do not occur simultaneously with the numerical change in the platelets but follow it. The maximum shortening in the cosgulation time occurs some time after the number of pit telets has again returned to normal and persists if now the pressing it now.

6 The characteristic shortening of the coazulation time after the intrav nous injection of sod um citrate does not occur it animal in who e blood there are few or no platelets. If a uff tent amount of citrate is go en the opposite effect is produced in such anim ls a d the coagulation time is markedly prolonged.

7 The shortening of the coagul two time fails to occur als in human beings with hemorrhagic diseases characterized by a pronounced numerical

deficiency in the blood platelets

Of the basis of these objects to us the slow intra

ven us injection of so hum citrat in large doses has been employ ed to arrest hamorrhages due to gastri ulcer typho d fever pulmon is tuberel is a adother bleed ng cond tions not cc impan ed by dimi ution or disea e i the pl telets. In hemorrhagic diseases the use of sodium citr te

is strictly contra indicated Sau el Lain VD

Walterhoef and Schramm Th T atm nt f
Pernif us Amernia by the R m alof Marrow
from the Long B nes (D B h dl gd pr
5 An m du b Entm rku g
R hrkoh) A tom d Sca d 19 4 1 96

The rem ssion frequently produced in pernicious anæmin by the admin tration of a e ic s w il known I kew se the effect of blood transf s ons. In

some cases splenectomy has proved of benefit but the operation itself cannot be the cause

Assuming a telationship between the spleen and the disasse the authors set about to discover whether the same effect could be obtained by attacking another part of the harmatopoiette sastem. They therefore removed bone marrow from the long bones more experimental investigations have yielded evidence of an influence exerted by the matroyr out that of the contraction of the

The operation i as at first considered indicated only for patients who did not respond to any internal therapeutic measures but later the indications were somewhat increased Originally a single medullary bone was selected but later when it was found how well the operation was borne the marrot was sometimes removed from several bones at one time Three cases are reported as examples of complete remission ascribed solely to the operation and three cases in which remi sons were incomplete and of short duration but resort was had to transfusions arsenic or further marrow removal when the condition became worse Finally two cases are described as examples of operation combined with the use of arsenic and transfusions in both a complete remis sion occurre l

In two and a half ears this operation was per formed on twentive three patients. Mer a two year period of observation good results were found in 48 per cent of the cases. It seems possible to rule out an acci lental relationship between the rem ss ons

and the operation From the outcome in cases refractory to medical treatment the authors conclude that removal of bone marrow has a definite and cat on and an important place in the treatment of pernicious animia The results are the same in pernici us anaemia as under normal conditions Regen r tion is extens ve completely filling the denu l d zone \ll grades of leucocytic and erythrocytic development are found Accordingly there can be no question of an anatom ical insufficiency of bone marrow in this disease The investigators believe that the explanation of the benefit deri ed I om the operation lies in the stimu lation which is produce i by the removal of the bone marrow and sincreas d by th subs quent regenera ton The articl is ummarize to follows

t In permici us aniemi a r miss on mis be produced by remo al of the marrow of I ng bones 2 kemo lof bone marrow is indicated if medical t eatiment cau c no improvement in the clinical picture or effects only an nc mpl te remission.

3. Since the ability of the organism to re ct to internal med cation is regained as the result if the operation the effect of the operation may be in creased by the systematic combination of marrow temoval and the previously ineffective measures

4 In pernicious anamia removal of a part of the marron from a long bone is followed by regenerat on

in which both the blood forming elements and the connective tissue take part. The cellular marrow is formed from all of the bone marrow elements of leucocytes and from all developmental stages of enthrocites.

5 There is no anatomical insufficiency of the bone marror in pernicious anamia

o The influence of the operation on the clinical picture of pernicious anamia consists in a stimula tion and the maintenance of this stimulation by regeneration

WALTER II NABLER M D

Lewisohn R Citrate Method of Blood Transfusion After Ten Years B sto M & S J 1924 C C 733

The only true direct transfusion of blood is accomplished by seesel anastomosis by direct suture or by means of a cannula which brings the intima of the donor's vessel in direct apposition with the intima of the recipient is vessel. This method was the more during of those until about twelve years ago to the control of the procedure of those until about twelve years ago to the procedure of the procedure of those until about twelve years ago to the procedure of the procedure of the procedure of the procedure of the donor is vessel must be exposed and cut and the impossibility of determining exactly the amount of blood transfused.

The indirect methods of transfusion are the following (1) cannula method (Bernheim) (2) as ringe cannula method (Lindeman) (3) parafinized glass cylinders (Kimpton and Brown Vincent Tercy) (4) stop-cock method (Unger Miller Hernheim) (5) citrate method

In the syringe-cannula method an 8-cm cannula coated with paraff n is interposed between the vessels

The syringe-cannula method represents the first step to ard simplification of the technique of trans fusion but is little used at present as it requires a well trained staff of at least three persons

The paraffinized glass cylinder method devised by Lington and Brown and modified by Lincent is a good method in the hands of experts. The proper coating of the cylinders requires considerable skill

The most popular of the stop cock methods was devised by Unger. The chief objection to it is that the donor and recipient must be brought close together.

The author's experience is based entirely on the citrate method which he believes is the simplest of all

It far back as suit) vein ago attempts were made to find an improves anticogulunt. At that time sodium, pho phate and sodium beardenates we tested but when they were given to consultant to present congulation they were to consultant to present congulation they were to consultant to present congulation they were to consultant to the suit of the same reason the use of hrusdam which was it do by the author was abandoned summal experiments with sodium citrate showed

that a o 15 per cent mixture with the blood is suff cient to p event coagulation and is entirely harmless

The technique of blood transiusion by the citrate method is simple. Only one step in the procedure requires a certain amount of skill namely, the proper insertion of a good sized cannula into the vein of the donor. The proper e ecution of a citrate transine n depends on rapid flow of the donor a blood into the glass jar containing the citrate solution. If the blood an I citrate selution mix rapidly no clots-

not even minute ones-will form

The extreme simplicity of the citrate method has on inherent danger. It was formerly thought that ansone who had performed a phielotoms or who hal gr en an intraven us sal ne infusion coul I trans fu citrated f food su cessfull. Therefore in mans historials citrat tran fu i n were turned o er to in perience I men whereas the oth r much more complicated in livert method were also vs use like exterts 's a result a number of clinics rep eted mans m re el ll f llowing the use of the citrate method than following the use I the oth r in lirect When at the Mt Sinai H rit I New York the tran fu ions were t ken out f the h n le of the tieren ed men the incidence of chile was reduce I fr m 34 t 8 per cept in the use of th Lacer method an I from 13 to 13 per cent in the use f the citrate meth vi

The lightly higher incidence of thills fill wine the citrate method as compared with the Unger method t trebably fue to chill; gof the blood dur ing the transfer from the funor to the recir cut but this difference a outweighed by the greater single city of the citrat method. It is eatlent that the soel um cittate it ell is not responsible sinc large set es of ca es Neuh f an I II re hfell injected from 6 to 5 km of sodium citrat intraven usly (dose more than five times that used in the a crage citrate tran fu ion) without caus ng chills in a ingle

It is not a issai le to sterilize the glas wate an i tubing immedi tely bef re th transfu ion is given as heat causes coagulative chinges in the blood with subsequent chill a

In the author's of inion, the deaths attributed to citrate transfusion ar due un foubte ily to faulty technique wrong in h att no or errors in the tests f e ham lysis and agglutinati n rather than to the

curate

Unree claims that c trated plasma has anticom plen entary po er and that sod um citrate increases the fragility of the red blood cells and lecre ses the phagacytic power of the white cells If th true the citr te meth I would be contra ndic tel in a large numl r of cond to us in which it ha given acellent results. In rec at investigation. Mellon. Ha tings an ! Cases foun ! an antic mplementars power in citrated pla ma but n I leteri u flect exerted by the sodium citr toon either the red or the white cells

The best proof of the harml s ness of c t ated blood is its beneficial use in melans neon torum The author has injected between 80 and 100 c cm. of citrated blood in more than a dozen cases without causing any untoward as motom

A citrate transfus on in the newborn infant illus trates also the great advantages of the metho i from

the point of view of technique. It is not necessity to resort to the longitudinal s nus a rather danger ous approach nor to expose the external jugular vein a procedure which leaves a duf mine scar Lewisohn has n ver experienced any timeult in in erting a fine cannula into the median cerbal c vein and he ha never seen clotti - occur in the carnula The other methods are all ha ed on rapid injection of the blood hel re coagul tion occurs Th refore they cannot use the median cephalic vein.

In ca cs at the Mt Sinai Hospital in which the stop c xck methe I was used after the e trate method ha I faile I to effect a cure the result of the injection of uncitrate I blood were no better than those of the citrate method The fail e to I tain a good chincal effect was therefore fue to the underly e di ease

One of the most arteresting pha es of the chemical

rather than the method of transfu ion

acts in of sod um citrate on the I lood is the shorten ing of the c agulation time. It might be assumed that following the injection f an ant coagulant into the 1! of stream the consculate a time would in rea e but on the contrary it is markedly bort ned This shortening is transitory the coagulation time returning to pormal in a fe hours Hirschfel I have attempted to use socium citrate as a hamostatic by inject ne from 6 to 5 cm intra senou ly but the results to not seem sen ercour aging I loses of the same are toxic unless they are in jected very slowly. The shirtening of the co gula tun time is baled on the action of the sod um citrate on the blood platelets. The latter show an imp chate I minution fue to the with franal from the systemic circulation of 85 per ce t of th r number Mer ha ing been in contact with the sod um citrate they re sullenly and rap lly removed from the circula tion probably by the spleen and then destroyed Their destruction is followed by a discharge into the

thod of their contents the thromboplast c substance extoryme with the resultant shorten ng of the coagulation time Simultaneously fresh blood pl, telet. are mob lized

In space of the contention of Ro nthal and Bacht that the intravenous injection of sod um c trate is contra and cated in harmorrhagic diseases the author and others have given many transfusions by the citrate method in purpura and ham phila with constantly good : ults

With regard to the select on of donors the auth t calls attention to the f ct that a rec pient mat change h . I lood group after a transfusion and that therefore he shoul I be tested again before a second

tranf jon it e en In acute leukæmin acute sepsis and inoperable ca cer blood transfusion is us less and not w thout

danger In conclusion the author summarizes the results of 365 transfusions g ven in 269 cases S venty four of the patients were cured forty four were be efited eight were not benefited in e cannot be traced and WILL M A HENDRICKS VI D 138 are dead

LYMPH VESSELS AND GLANDS

Pfahler G E and O Boyle C P A Case of Hodg kins Disease with Late Development of Sacro-Iliac Disease Cured by Roentgen Treat ment Am J R nig nol 924 4 6

The nations was a gut as years of age who was admitted to the hospital December o 1900 with secling of the glands of the right sude of the next. This swelling hand been present for a year. Under treatment with local applications at disappeared but in July 1900 at reappeared and gradually in creased. The glands of the left side of the next and those of both anults also became enlarged the glands of the manufacture of the glands were not painful and there were no subjective symptoms.

The patient was somewhat anome and emacated Physical examination revealed centessive lymphatic tumors consisting of solited glands of uniform consisting of solited glands of uniform consisting which formed a mass about the size of a first on the right vide of the neck and smaller tumors in on the right vide of the neck and smaller tumors in or the result of the property of the result of the property of the result of th

Reentgen examination showed a large mediastinal timor mass nearly as large as the patient's head The shadow was continuous with the card ac shadow and the two occupied about one half of the chest cavity. The outline was smooth and sharply defined There was no evidence of pulsation. The lungs were clear and the heart shadow was normal.

The Wassermann test was negative. The blood count was 3 430 000 red cells 14 200 white cells 71

per cent polymorphonuclears 5 per cent transtionals 22 per cent lymphocytes and 2 per cent cosmophiles The hæmoglobin was 65 per cent A section of the cervical glands showed Hodgkin's disease

The treatment consisted in the application of the toentgen rays over the area affected. Within a period of eighteen months five applications were made over each field.

Progressive reduction of the tumor tissue and improvement in the general health resulted. The patients weight and strength increased and her folor improved. Venstrussion occurred in Apral 1011 Eleven months after the beginning of treat ment there was no palpable evidence of the disease. The tumor tissue in the mediastimum had been reduced two turbs. Eleven months later the patient seemed well although there was still slight evidence of the disease in the upone mediastimum.

Shetmanned apparently well for one year but at the and of that time returned because of a tumor which had appeared over the left hip posterior to the great trochanter. This growth was about the sue of a small banana. Its hardness suggested bone. Yazu seammanton showed that there was no bone disease. The tumor density was that of soft tissue. In the upper portion of the left sacro liate joint was an area of destruction about / in in diameter. No nalpable le more thanks of the seam o

On June 15 1933 a dose of roentgen rays similar to the doses given previously was administered Examination on August 9 showed that the tumor had entirely disappeared and that the bone had become healed CLAYON F ANDERS MD

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Werner R: The Treatment of Surgical Carcinoma and Sarcoma with Radio-Active Substances (Liber de lib al. 2 chury scher (a. me und 5 k me mitr doubli en 5 bitana.) Si all 6 library. 1021 x. 1.

Wetter discusses II methods of emplying radioactive substances in the treatment of malances active substances in the treatment of malances of others represent part of the treatment tradiation is given through the same and I their tradiation is given through the same and I their tradiation is given through the same and I their tradiation of a locative suit latere into the I is castites while intratumental strainting are hum or menthorium or of gives capillaries containing can compatibilities.

In extern I frea lat n the ration hip of the doosage to the skin explanna lose n that I free me atton of the I pith quotients re-best arriffer to atton of the I pith quotients re-best arriff lat as in the case of the re-entry new by taking includation to the most reaction and to I sage is the relation of the site night of the rays per entimeter of length of the ral samp lose of a sample per cultic certification the relation of the site night of the ral samp lose of sample per cultic certification of the site is and per cultic certification of the site is a sample re-cultic certification of the site

The question as to whither rail oth raps may cause a rapit increase in the growth of a tumor is answered ly Wern r in the afternative he has observed this on a number of occasions.

After fr qu ntly repeated radium trainment with loses which are not in themselves large enogh to cau e a strong reaction late injure may appear chiefly in the form of vascular changes but also in

that of atrophy of connective ti su In the se > 1 p at of the article the auth r lis cusses the technique and re ults of the treatment of malignant tum rain var ous l cations. In sarcom ta of the vault of the cran um a cons lerable a mber of lasting cures ha e be n of tained by extr tum I ralium treatment. Tumors of the pitu i rs bod a d retrobulbar gliomata or gliomsarcomata have also frequently hisapp are I following the ternal application of ra hum. Mr ed tumors of the parot d gl nd r act well in their serrous tous posts as but as most of them contain t fractory to ue also their apparently complete disapp arance loes not gu r antee against recurrence had um therapy s of particular value in m bignant goiter con ting of circumscribed tumor nodules. In diffuse i ol e ment of the thyro d ro ntgen ray treatment is in dicated at an) rate radiation is to be preferred to operation In cases of tumor of the buccal cavity pharynx and larynx the results are usually n t good In branchi genous carcinomata radium treatment has shown some very remarkat le results Recently

attempts have been made to improve the results in mal gnant tumors of the prostate and of the rectum to the use of relium her iles

In carein ma of the er-of hagus an entirely suc ce ful oute me is sell m obtained even with the greatest skill at 1 care

For post feratise it atment the rocuten ray is utility referrable to rad ium on technical grounds. Treatment before operate is permetted to the shift of the shif

h Ingare empk sed
The cl calfilir raium tratment is ep
theliom of the sk and care noma of the lo

In conclusion the author states the time terminant with ratio sets abstances the order or is stimulating male to out the technique to the part "ular kind of unor and their quit m into its small mediate too and I sol geal peculiarities but the 1 in space obtained thus far in only a small percentage of circ mata and sare mat a line the estimation of 1 sage it is bett if to go e too small than too large the same of the same and the same than the sam

Acall rest (Z)

Holf Ider II Concerning the Limits of Deep V Ray Therapy and Operation in the Treat ment of Malignant Growt! J. C. m. 1924

At the cli ic f Schm ed n at Frankfort where th author is perinten ling raid ologist an operable cane r, s operated upon as soon as possible but a cli a of c neers is recognized in which because of the formulate mutility of the high mortal by and the mail the of our cassocieted with surgical un nitional. In the latt r X ray treatment can do at least much a urersy and frequently more

Stemthal a cl sufcatto in used in the good p.g. car in man if the b c. t. Can, rs in N igs rs and a hould be treated using cally, as each, as possible Ca cer beyond Stage as an libe p. in N ray therepy. In the comment in pr. N ray therepy in the comment of the p.g. the results in Schmeiden Clinic age ewith those of the aschutz Clinic but e at ariance with those of the schmed by let the Schmeiden Clinic but e at ariance with those of channed by the SC in the percentage of ou excalculated on the base of all cases was reduced by postoperative rad ation from Anschutz Clinics it was increased from 46 to 66 per ent.

In cancer of the h n a three year cure is obtained by surgery in 80 per cent of the cases and by \ ray treatment in 70 per cent. In cancer of the tongue tradiation completes successfully with surgery but the prognosis is relatively unfavorable. Cancers of the largin seem to react favorably but because of the lark of sufficiently long periods of observation it is six impossible to give a clear indication. Cancel of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the stomath cancel concert of the stomath cancel of the stomath.

In cancer of the thir roud the results of X ray teat mert are 'o fivorable that regret you had be ment are 'o fivorable that regret you had be X ray teather than the regret you had be the second of the rectum of the rectum should be operated upon The Schmeden Chan should be operated upon The Schmeden Chan should be operated upon The Schmeden Chan so obtained a three, year cure in 17,5 per cent of the cases by means of preliminary radiation followed six vecks later by venous and by prophylactic radiation eight weeks after operation.

Only 8 3 per cent of all patients with inoperable cancers in various regions of the body were free from recurrence at the end of three years. The number temporarily benefited was large and to one half of them the capacity for work was restored for more than one var.

The chances of effecting a cure by radiation are much better in sarromats than in carcinomata About so per cent of the mediastinal tumors especially sarromo of the Cundrad type cm be completely and permanently cured. In cases of sarroma bloone a three year cure so bitaned in ag per cent in which the tumor is not molested surgically. When hopps is done the percentage drops to 1.4. In sarroma the results of radiat on surpass those of surgery. Cranazzi H Ilezocox. M D

Sippel P and Jacckel G Cau es of Failure in the Roentgen Treatment of Mailgnant Tumors (Ueber d U ach n d M f ig dr Ront g nthe ape by malg n Neubldung n) W chen med W h c) 933 lec 9

The authors review the results obtained by roent gen treatment in cases of mal goant neoplasms of the female genitalia and other malignant gros the at Bumm s clinic in a p lod of eleven years. The original high hopes have not ben realized optim sm has had to give place to great d sillusion.

Exc pt in case of postoperative prophylactic in tradiation the results have been very disappointing. This was due on the one hand to ove estimation of the deep effects of the radiation errors in dosage and overestimation of the roentgen sens it vi 50 maling main timors. Among the play said causes of failure main timors. Among the play said causes of failure of ravs from Cooling to the difference in the output of ravs from Cooling to the same cond toons the erythema do e being reached in eighty three eighty, five eighty man and one hundred and twenty two

minutes. In addition the registering of the milli amperemeter was sometimes inaccurate because of deposits due to the moisture in the atmosphere and the isolating power of the glass wall Deviations of 60 per cent from the normal were observed. These were downward when the current was strong and up ward when it was weak Errors were due also to the fact that the resistance regulator of the kilovoltmeter became heated after several hours of use so that the kilovoltmeter registered a tension too low and an overdose amounting to so per cent was given unles there was a safety spark gap in the tube. The spectrometer of March Staung and Fritz (the old model with a scale is meant) was found unsuited for practical work because the error it made in the measurement of dosage ran as high as 30 per cent

In determining the doses for deep radiation the authors first took Dessauer's statements as their guide but later when they tested these with the iontoquartimeter of Reiniger Gebbert and Schall they found that in Dessauer s tables the deep action was greatly overestimated. This accords with the findings at the Friedrich and Glocker Institutes The reason for the error was that Dessauer worked with films superimposed upon each other and the films that lay underneath received too much light from the secondary radiation of the silver bromide on those that were on top Therefore in the center of the irradiated field the dose was too small and could be brought up to the amount necessary without placing too great a strain upon the skin only by add ing direct irradiation of the tumor with radium or the roentgen rays by way of the vagina According ly the authors obtained better results from com bined radium and roentgen treatment than from the large roentgen field alone

The chief cause of failure bonever lay in the bological reaction of the tumor Some tumors are very sensitive reacting to one hall or two thirds the crythema dose Others of medium sensitivity react to one crythema dose Others of still less sensitivity to the control of the crythema dose. Still others are wholly more of the crythema dose. Still others are wholly refractory to the rays.

The malgnant limphomata and strumata and certain forms of sarroma belong to the first group but from 60 to 70 per cent of all mal gnant tumbelong to the third of Juttle group and only from 10 to 30 per cent to the second group. Catcunoma of the cervix sparticularly restant. The most difficult to influence are bone gnant cell and melano atromata sarroma of the cervical or uterne mucous membrane carcinoma of the correctival resurrent mucous membrane carcinoma of the tongue and cornifying squamous cell carcinoma of the tongue and cornifying squamous cell carcinoma of the outer skin.

The results in all cases were subjected to the roset careful study by microscopi examination of accurated accurated the subject of the purpose. In sarcoma as well successors of diagnosis can be made only with the help of the micros type. The Serts and Wints sign a rapid decrease in the suce of the turnor after exposure to the X ray is not to be depended upon since momenta also frequently undergo very rapid shrink.

age The danger of recurrence and metastasis re mains even when the reaction is prompt. Indeed the authors frequently received the impression that metastatic spread vas favored by local disappear ance of the lumor—in carcinoma of the breast for example.

When distant metastases are already present roentgen ray treatment is of no avail Small carcinomatous cell complexes are more easily in fluenced by the roentgen rays than are solid tumors as is evident in the d sappearance of the pertioneal dis eminations of a carcinoma of the ovary ith

persistence of the primary tumor

With regard to the results obtained by post operative rontingen ray irrationment the authors state that from October 1 type to May 1918 289 radical operations were perforned for carcinoma of the cervix with a mortality of 13 per cent. Of the 23 surviving patients 163 received fauthofterapy (usual 1) roentgen rays combined with radium) and of the fifty engli (3 7 per cent) air all to today and tree from recurrence. Of the 143 who did not receive articularly fly one (35 6 per cent) are still living excluding all the still living control of the 143 who did not receive actions are sufficiently in one (35 6 per cent) are still living control of the 143 who did not receive the sufficient of the 143 who did not receive the sufficient of the 143 who did not receive the 143 to 144 to

The patie it a gene al condition age and state of nutrit on are important factor in the success of roentgen ray treatment. In this connection the authors call attention to the fact that the decrea e in the leucocytes after treatment ma kedly! we set the general res stance. Carcinoma of the cervia control to the state of the cervia control to the control to the cervia cont

companied by septic 1 horous suppuration and fever 15 not suitable for roentgen ray treatment

Experiments mide to test the observations of frebe and Martius as to the greater effect of soft rays showed no difference in the permanent effect of anys of different degrees of hardness. All other at tempts to stimulate the carcinomatous growth—the prenderal administration of protein bird exposure of the entire body to the rays stimulating irredution of the entire body to the rays stimulating irredution blood transitions at er—had no prefer.

In systematic histological studies made to deter mine whether the sensitivity of the tumors to the roentgen ray depends to any degree upon thir structural differences (degree of maturity fat con tent etc.) Veyer found no basis for such a bel et

Direct irradiation with radium influences tumors more favorably than indirect deep radiat on but un fortunately small vaginal roentigen tubes have not yet been constructed successfully. For the prese t therefore a combination of roentigen ray and radium treatment must be used.

bince the statistics of operation followed by prophylactic radoscheapy show 33 p per cent of cures in 108 cases at the end of five years while of an equal number of operable cases which were treated contraction of the properties of the properties of the treatment only tenenty, ask (as per cent) were correlated Bumma & Inne has returned to the principle that in asse of operable carcinoma the treatment should be operation followed by prophylactic radoscheapy

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Meyer A W and Cajori F A An Anatom cal and Ch mical Report on a Unique Case of Myeloma Ar h I t M d 19 4 XXVIII 581

The authors believe that the formation of multiple myelomats as associated with an unusual condition of mineral metabolism due to exten we know in the osseous tissues. They give the calcium and phosphone acid content of the tissues in a table. Their findings and the results of balance exper ments made in cases of multiple in the part of the properties of the content of the conte

EMIL C ROBITSHER M D

Bloodgood J C Y nthom to Introduction

A h S rg 912, 88
Garrett C A Tumors of the \anthoma Type

A h S g 024 1 S0
Smith D T A Method f r Mak ng s D fferentia

Smith D T A Method f r Mak ng a D fferential Diagnosi Between Vanthomat us and M lanin Tumors from Frozen Sections Bas d on a Study of 130 Xanthomatous Tumors and 200 Melanin Tumors it h b g q 4 90 90

Broopgood by way of introduction to the two following articles on xanthomatous tumors re views the entire group of tumors of the soft parts benign and malignant considering ep dermal sub epidermal and subcutaneous group tendon sheath tumo s and tumors of bursæ Th ep dermal sub epidermal and subcutaneous nodules are almost always benign at the on et and frequ ntly r main ben gn for many years By proje treatment it is nearly all ave possibl to cur them completely death in such cases is due to del v of intervention or madequate action. All such tumors if temoxed at all should be ompletely e co ed with a good margin of skin an i ubcutaneo tis ue Failu e to do this c tre a definite d ge and is respons ble for m st failu es of treatm t If p oper ever on is impossible without ext si e mut late n and a defi nite dag o i of malign n can t be e tablished even with id of fr z n ct ns no op at ve inter vention whatever h uld be attempted Tendon sheath tumors particularl the e occurr ng below th wrist o nkles and tumors of bursæ are u salls benign and r r ly necessitate imputation

(ARREIT tudied 106 ca es f tumors not all xanthomats but all so closel related that they be longed to a common group diffe ng from other types of ben gn tumors and from sa comata. They actuded fibr harmangomata gr nulat on tissue

tumors and tumors of tendon sheaths joints and hurse Of seventy six fibrohamangiomata nineteen were microscopically typical of xanthoma though grossly and clinically they did not differ from the others They were made up of fibrous tissue with masses of foam cells large foreign body giant cells proliferating endothelial cells and blood pig The foam cells are uniformly vacuolated cells which are supposed to be characteristic of xantho mata They are found however in so per cent or fe er of the cases and appear al o in a number of other conditions Fibromata of the tendon sheaths present a typical picture and are strikingly similar microscopically but grossly 40 per cent of them appear xanthomatous The granulation to sue tumors were a confusing heterogeneous group. One was called a xanthoma All vere benign and were cured by local excision Of the bursal tumors none was vanthomatous but vanthoma occurred in four of eleven cases of joint tumors. All of the cases in this series were cured by local excision. Fifteen per cent of the tendon sheath tumors recurred but the nationts remained well after a second operation

SMITH call attention to the following differences between true melanin and the blood pigments found

in xanthomatous tumors

Melanin pigment i endogenous in origin The granules are individual discrete bodies of uniform size shape and color regularly distributed through out the cytoplasm and smiller than the granules of blood p gment. They do not give the zon reaction The granules of zanthomata are hematogenous in origin give the zon reaction and insite a foreign origin give the zon reaction and insite a foreign come clumped tog the ratio et the granules be, come clumped tog the ratio and different sizes and vacuoles form about each rose, different sizes and vacuoles form about each rose,

Meyer W Some Notes on Cancer with Special Reference to the Paras tic Theory J C cr

It seems to be universally accepted that the can cer cell was at one time a normal cell of the tissue from which the cancer arises. Between the condition of normal tissue cell and that of true canc r there is a p_cancer state

Cancer as today produced at will The method emploted in olive the u e of it chemicals (b) the hard (i) mechanical factors and (c) parantes If coal tar is brushed for months over the ears of rabbits or the backs of mice benign grow that appear if the metation is continued malignancy eventually develops. It has long been known that the \(\text{Law}\) and a cause cancer as the proper dosage has been discove ed the \(\text{Lay}\) rays poon be controlled so that cancer may be produced or prevented at will

Rats have been caused to develop cancer by feed ing them oats and barley the bristles of which The largest number of penetrate their tongues artificial tumors were produced by Bullock and Curtis who fed rats with cat excrement containing ova of cysticercus fasciolaris. More than 1 000 sar comata of the liver have been thus produced

The theory that cancer is due to a parasitic or specific cause has been discredited by the laboratory production of cancer by various other means No specific infecting agent is known which is so indif ferent to the character of its host that it is capable of infecting all vertebrates in all climates

Investigation of cancer boats on the shores of the Baltic and in Siberia revealed that the fishermen ate raw fish infested with the larvæ of trematodes helminths which have a predilection for the gall bladder. In many of these fishermen who died of cancer thousands of these worms with their larvawere found in the liver and bile ducts where they had produced inflammation preceded by cirrhosis of the liver Moran the pioneer investigator found that when bedbugs were transferred from the cages of cancerous mice to those of healthy mice a large number of the latter develoed ancer Rodents of all kinds are infested with helminths cestodes and nematodes Bedbugs fices and lice feed upon these animals and absorb with the blood the larvar of helminths Later the insect through its suction tube infests a new victim with the previously ab sorbed larvæ

The theory that parasites of various kinds may be causes of cancer was strengthened by a study of the high incidence of cancer in Berlin The senage of that city is disposed of by a system of pipes which carry it to deep caissons whence it is pumped to distant tanks and used in the irrigation of e tens ve truck farms Proved high cancer incidence and proved consumption of lettuce radishes onions celery eaten raw and coming from fields fertilized ith human excrement are there associated

From investigations of other cancer districts the conclusion was drawn that the cancer house cancer street cancer boat and region are myths as far as the contag ou ness of cancer is concerned but in these districts and houses and boats certain paras tes may abound which ga n entrance to the human body and produce prolong d and continued irritation leading to cancer

Laborers employed a certain steps of the manu facture of anilin are apt to acquire catarrh of the bladder If they re taken off this work upon the onset of the co dition the symptoms recede but if they continue at that work a chron cata rh l condition of the bladder de elops and a cert in per It the efore seems centage develop malignancy apparent that chronic nflamm tion from any source is sufficient to produce mai grancy

Toward the end of the last century many 1 vests gators concluded that the cancer cell tself is an mmigrant pa asite Th's contenti n was based on the follo 1 g observations

I Cancer cells form no tissue but ordinarily he disconnectedly and loosely side by side in the stroma

and without physical connection with the stroma 2 Cancer cells perform no function in the system but live upon it When they appear to function such

functioning lasts only a short time

3 Cancer cells can be disseminated througho t the system like bacteria and act like parasites in the they form metastases which are like the primary growth

4 Cancer cells like bacteria are capable of producing thrombi in veins

This theory has been so shaken that after a half a century of searching in many directions science has returned to the starting point Vircho's theory that irritation is the cause of cancer remains domi-

The article is summarized as follows

I It is generally agreed by competent a vesti gators that spontaneous cancer cells des end from normal cells of the tissue in which the cance arises

2 To the process of transformat on of the cells from one state to the other parasites like numerous other non specific factors-mechanical thermal actinic chemical endocri e hereditary-stand in the relat on of the match to the heat radiating from the fire which it has kindled viz inciting but incidental

3 Current exper mental production of primary cancer by various non specific means makes the search for the specific cancer agent appear no longer advisable and seems to pro e that ordinarily urnta tion is the starting point of developments to ding in the direction of cancer

4 As nearly as anything can be certain in med cine there is n cancer contagion i e specific infec

tion c Ob ervations seem to pro e that cancer is in

every instance an individual experie ce More th n one nd dual may rece ve a non specific incit ng facto from the same source and

then independently in yormay not develop career 7 Around source disseminating d rectly or in directly throu h intermediate hosts one or more non pecific inciting factors cancer foases cancer towns cancer d t icts may become established

8 In orde to ed ce the incidence of cancer such common ources must be sought out a d abated One uch ource seems to be the rat

q Systematic rat extermination alread) sug g sted for eco omic and hygienic r ason appe rs advisable also fr m the point of view of reducing the

number of c neer inciting factors 10 Prophylactic anthelmintic treatm nt at fre quent regular intervals throughout life applied as ccination ag i st smallpox might po s bly cause a reduction in cancer incid nce Such

procedure would of course b of still greater valu if in add tion means could be found to reach and rend r harmless the l rvæ in th vario s organs

PAUL W S TET WD

MEDICAL JURISPRUDENCE

Failure to Relieve a Strangulated Hernia Wo II is Lal nd 120 \til p 435

These were two actions for negligence and mal practice one of which was brought by Mary L Mortell and the other by her husband against Dr Lalonde a physician and surgeon. The cases were tried together and the trul resulted in a ver diet for \$13,416 for the wife and for \$2,333 for the husband.

The trial judge indicated that unless the part es would cut down the awards to \$3 500 and \$1 500 re pectively he would grant a ne trial. On this ruling they appealed to the Supreme Court of Rhode Island.

Mrs. Morrell at the time of the acts complained.

of was 59 sears old Dr Lalonde conducted a pravate hospital for more than three vears prior to April 1920. Mrs. Morrell had been suffering from a berran Ultimately the herais became strangulated Dr. Lalonde had ad sed her that an operation was necessary, and that delay not dingrous but she tailed to take any ction until in April her condution became so critical that she as consumed that an operation offered the only chance of saving her life on the following day she, veit to the hospital. The

court said He made an unskillful opening into the abdomen and without attempting to do any thing to relieve the obstructed bowel after remov ing an accumulation of our sewed up the wound told the patient she was going to die and that he could do nothing more to help her That evening Mrs Morrell was removed to her home by her hus band With regard to whether the doctor remon strated against her removal there is conflict in the evidence. On the third day after the operation and without medical attendance from her physician in the meantime he was removed to another hospital there a second operation was successfully per formed

The court further said Although the patient had but a small chance of escaping death the de fendunt by failing to relieve the acute condition of stringulation and by making a useless and un necessary ince ion into the abdomen thereby dimin hed the chance of his patients surviving. For this failure and his subsequent neglect the defendant is responsable to the plaintiff for such dam ages as he proves she has suffered as a consequence thereof

Thereupon the court ordered that the action of the trial court in cutting the a vard to the amounts stated be approved Will aw E. Mooney

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EDITOR'S COMMENT

ABDOMINAL surgery comprises so large at part of the work of the general surgend the principles of the surgical treatment of abdominal disease and the various methods evolved in different world centers for putting these principles into effect are of very real importance to nearly every man interested in the practice of surgery.

The current issue of the INTERNATIONAL AB STRACT OF SURGERY contains an exceptionally large number of interesting and important con tributions to the subject of abdominal surgery Two paper on gall bladder surgery one by Koerte (p 393) and a second by Kirschner (p 303) reflect the controversy concerning the indications for operation in the presence of gall bladder disease that has been carried on for some years in Germany The former represents the older and more conservative school which for many years has determined the attitude of Ger man medical men toward gall stone disease. The latter represents the younger school, which favors surgical treatment early in the course of the disease in order to prevent the effects of long continued even though low grade infection Three papers dealing with various phases of gastric surgery are worthy of particular attention-a discussion on the treatment of severe gastric and duodenal hæmorrhage presented by Paterson Willcox Burges and others before the Royal Society of Medicine of London (p. 381) Schoenbauer and Orator's study of the late results of carcinoma of the stomach based on 432 cases observed at the Vienna clinic (p. 382) and Stein and Fried's investigation of gastric and pancreatic function after extensive resection of the stomach (p 383)

Nules paper on congential fixation of the duodenum (p. 38). Lee and Downs discussion of the treatment of intestinal obstruction by pigunostom (p. 38) and Lehmann and Gibson's interesting observations on a case of jejural sixula (p. 39) emphasive again the intimate relation between physiology and surgery—the importance of an adequate conception of normal function for the successful application of surgical treatment

Gordon Watson's paper on diverticulais of the pelvic colon (p. 389). Mills presentation of the ray evidence of secondary changes in the colon (p. 388). Soper's discussion of restoration of colonic function (p. 388) and Kroll's report of the results of operation for cartonion of the rectum during ten years at the Surgical Clinic of the University of Koengisher geomprise a group of equally interesting and important papers on the surgery of the large intestine. An original ard ingenious method of repairing a large abdomnath herma by swinging the tensor fascal femors with its nerve and blood supply intact over the abdomnatd defects described by Mackenzie (p. 39)

THE use of vaccines and sera in go necological and obstetrical practice a procedure discussed in two papers one by Chevire Fu mer; and Dausse on the results of autovaccine therapy in utero-adreal affections (p. 300) and a second on the serum treatment of puerperal sensits by Bullet of New York (p. 400).

A number of other interesting and important abstracts should be briefly mentioned A sym posium by Simonds Grinker Patrick and others on inflammations of the brain and meninges of otorhinological origin (p 372) a discussion on vertigo by Rolleston Holmes Scott and others (p 375) and a description by Pussep of the operative treatment of tumors in the region of the sella turcica (p. 373) will interest particularly the neurological and aural surgeon Smith scussion of the causes and treatment of otitis media is a helpful contribution on an important subject Bumpus report of the results of radium treat ment in prostatic hypertrophy (p 412) Hacken brock s study of a case of operative neo-arthrosis after two years (p 419) and Matas description of the postoperative treatment of critical cases with the aid of the intravenous drip (p 424) will interest every surgeon whose mind is open and receptive to new and helpful ideas

INTERNATIONAL ABSTRACT OF SURGERY

NOVEMBER 1924

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Sebileau P Autoplastic Closure of a Large Inter mailliary Hyold Defect by Means of a Double Flap with Two Pedicles (F meture par autoplast à duble I mbe u bipédi lé d'alarge bèhe de 1 region 1 marill hyo dienne) B''ll etimém Soc n 1 dech 9 4 1 56

In the case reported the entire lower jaw had been destroyed by necross and there was an enominal defect extending from one manubular angle to the other. The defect was closed by means of two super imposed flaps each having two pedicles. A cervical flap with a pedicle under each ear was turned with its skin surface toward the buccal cavity its edges being sutured to the mucos of the defect. A scapillar with bilateral temporal pedicles was then applied over the first flap with its skin surface out ward and sutured to the skin of the breech.

This technique was first used by Dufourmental The grafts have taken well and the defect has been filled except for a small area where necross resulted from ery sipelas Schileau is correcting the remaining defect by further autoplastic procedures

W A BRE TAN

EYE

Harrison W J The Intranasal Operati n for Di ease of the Laci rymal Apparatus B; 31 J 924 1 1 47

Harnson has done the West operation in sixteen cases and in four performed it on both sides. He has treed the results in fifteen cases. Twelve of the patients say they are completely cured one states that he has had no abscesses and another reports slight epiphora and a second operation

The article is concluded with the following statem nt This operation offers considerable ad antages over e is on of the sac but the question whether it is safe subsequently to perform an oper ation for cataract or one involving the opening of the eye is open to doubt as some infection of the sac persi ts after the operation in some cases

THOMAS D ALLEY M D

Rochat G F and Steyn J S The Influence of Calcium Chloride on the Production of Ocular Fluid and on Ocular Pressure B: J Ophik 19 4 V1 257

By means of a Leber filtration manometer Rochat and Steyn measured the hound current taking place when the eye is connected with a manometer in which there is a slight underpressure. They then ascertained whether the current changed under the influence of calcium chloride The amount of hourd that was displaced per minute from the eyes of rabbits under narcosis was carefully noted for ten minutes with the pressure in the manometer from s to 10 mm Hg below the intra ocular pressure at the beginning of the experiment. If it remained constant for the ten minute interval as did the blood pressure 6 c cm of a 5 per cent solution of anhydrous calcium chloride were injected into the iliac vein the d splacement of the air bubble and the oscillations of the blood pressure being then noted carefully and continuously

It was found that during an average of twenty munites after the nuction of calument though the production of ocular fluid ocus derivaly increased and that this period of increases production was followed by a distinct decreases production was followed by a distinct decreases of the distinct of the dis

Further investigations were made with Rochat's sensitive registration manometer to determine whether after the injection of calcium there would be any change of pressure in the intact eye. The results corresponded to those of the previous expendents.

Still other experiments were made to determine the influence of the injection of calcium on the secretion of fluorescin in the anterior chainber It was found that the calcium acciderated the appearance of the green rolor in the intra-ocular fluid

These experiments sho that it i possible to inhibit the production of fluid in the eye by the admini tration of calcium chloride. In chinical cases calcium chloride can be given only by m uth as subcutaneous injections cause extensive necrosi of the skin and intravenous injections of any coniderable quantity are dangerous on account of their action on the heart

Rochat and Steyn mention the importance of disting shing between two clearly different actions of calcium chloride on the production of ocular fluid the one inhibiting and the other promoting

its production

The inhib tion of ocular flu I is rea his e plaine ! by the fact that calcium ren lers the walls of the blood ve els less permeable and contr ets the small blood ve el

The promotion of flu f formation may be expla ned by the effe t of calcium on the nervous system of the eye which may be either a naral vsis of the constrictors or a stimulation of the dilators causing incr ased ocular circulation ALS EY II LAMBER M D

Woods A C Th Application of Immunology to Ophthalmology A ch Ophik 9 4 1 3

Woods d scusses in a general way his i leas con cerning the various diseases of the eye which may be explained on the basis of anaphylaxi o allergy He takes up four structures of the eye the conjune tiva th cornea the lens a d the usea

Inflammations of the conjuncti a which seem to belong to this category are (1) tho e occurring in hay fever (2) those associated 1th pollen hyper sensitivity (3) those du t food anaphyl is and (4) phlyetenul r disease Wood guntes van s investig tors who have done considerable wo k on each of the es biects and gi es his own theory of the anaphylactic relation between tuberculosi and phlycten far dis ase

With regard to the cor ea he sin In d to agree with those who claim this interstitial keratitis if I et c or othe origin is fr quently allergic

I considerable amount of ork has be don on the lens by Europ an and Americ inve t gat r but many of the rep rts are 1 onclus e and th serologi al explanation of the results i often very complicated

In Mood's op mon u It act die ses-s h for mpl a sympathetic ophth linu and rheu matic u itis-may often be expla ed on the ba

of anaphy laxis The meth ds of arriving at a diagno is with th u e of pollen tuberc lin I as p otein and u eal pi ment are described in detail

Sutherland J M : Retrobulbar and Intra Ocular Neuritis Due to Hyperplastic Changes i the Ethmo Sph nold Sinuses J M h to St 1 M 1024 XXII 2 0

Sutherland calls attenton to the relation of the posterior ethmoid cells and sphenoil sinus to the ontic nerve the intimate relationship of the blood bessels supplying the sinuses and the orbit the blood supply of the optic nerve and the size of the ontic foramen and canal Etiological factors of retrobulbar and intra-ocular n unt s are infection through the blood and lymph streams direct exten \$1 of inflammat on or inf ction, and pressure upon the intracanalicular portion of the optic perce for the kening of the bone due to perioste us osterus or ordema of the soft tissues

The author has proved to his own satisfaction that any chron curritatio of the posterior ethmoid cell or sphenoid sinus with or without suppura tion an I bony changes is sufficient to cause in ol ment of the optic p rve. He advocates for all cases of optic neuritis and est ectally unilater I cases Opening and drainage of the ethmo-sphenoidal sinuses even though the phinoscopic ex mination may be ALBREY II PENBER VID negative

Withers S The Value of Radiation Th rapy in Ophthalmology Am J Ophth 19 4 3 5 5 4

Withers states that one of the permanent contri but one of rad ation therapy is the demonstr tion of certain b ological prope ties of tissues that some ti sues are resistant to large doses of ra hation while others are more or less susceptible. Five structural cha acters which determine a sceptibility to radi ation are (1) undifferentiated forms of relis (1) rapid growth 1 ith abundance of mitoses (3) large hyperchromat c nuclei (4) ascularity especially that due to an abundance of the walled cap! ları s and (s) absence of stroma o intercellular substance

T us prove relatively un u ceptible in the c lls are differentiated of adult structure ad con tain a small amount of chromatin in the n clei when they g ow slowly nd sh w few m toses when the blood supply is obtained from well f rmed adult v ssels an i wh n the e is a large amount of inter cellular material

With the e criteria in mind it is possible to state on theoretical ground whethe or n t certain path logical processes seen by the ophthalmologist

are suit ble for radi m tre tm nt C ditions in which treatm at by radiat on is the

m thod of cho e a e b sal-cell ca cmoma ep thel oma of the cornea undifferentiated s com ta my cloud and is replaced deposit and d ag chloroma and Hodgkin's disease angiomata and ernal conjust itis Epithelom of the cornea s tre ted th relatively unfiltered radium in caut naing doses at on sitting The corn a is f m ten to fifteen times as rad ores stant as the epithelium of the lids

THOM S D ALLEY M D

Conditions in which the use of radium is of proved value but not necessarily the method of choice are adenoid existic carcinomata arising in the skin and lachrymal tract prickle cell carcinoma carcino mata and orbital melanomata of differentiated cell structure including fibrosarcoma and adenosar comata but not including chondromata or o teo blastomycosis lupus vul mata actinomycosis gans and lupus erythematosus. The treatment of relatively differentiated sarcomata with radium usually brings discredit to the method unless it i u ed in conjunction with surgical removal or de struction In actinomycosis and blastomycosi ra dation therapy should be employed as an adjunct to the usual medical treatment. In lupus vulgar s and lupu erythematosus radiation is the method of choice in all but the acute fulminating conditions Cond t ons in which rad um may be employed

and more traumatizing procedures are contraindicated are cataract pterveium nævus papil loma zanthelasma cicatrices and keloids and tra choma and its complications. In incipient cataracts the lenticular opac fications may diminish cataract matures subsequent to radium treatment no technical difficulties are encountered in operat ing The author uses the technique for deep radium therapy the applicat on lasts two hours and 5

mgm of element are used Ptervgium is caused to dis ppear by cauterizing doses of radiation therapy Conditions in which experimental applications of radium are justified because favorable results have been obtained from them a patholo ically

s milar conditions elsewhere or because of definite evidence of radiosen tiveness of the particular cells involved are phlyctenular keratitis and conjunc tivitis and keratoconus. In ke atoconus caute 1 ng doses at the apex of the cone are suggested. The scars resulting from radium appl cations a e le s den e than tho e from escharotics or cauterizations

Pre operative and po toper t ve applications of radium may be gi en in operable maligna cy and pall ative applications in hopeless mal gnancy LYM NA CosMD

list r S W S me Concuss n Cl ng s Met with in Mil t ry Practice B t J Ophth o 4

Lister di cusse ruptures of the sclera concuss on ch nges of the iris and cil ary body the retina and the opt nerve evulsion of the optic nerve and the effects of fo eign bod es striki g the retina chief d fference between the njuries of c il p ac t ce and those of milit v practic s th t the fo mer are u u lly produced by more slov ly moving

In c vil life the g eater number of scler I ruptu es are concent ic with the corn a and about 3 mm f om the l mbus. In mulit ry p actice these as will as very different ruptures are seen. The cornea may be burst forms d by a large foreign body p ssing through the back of the eye or the entire scler may b split into lobes by the ent a ce of frag ment from the front When the sclera 1 not perfo

rated the rupture does not start from the point of contact but occurs at some di tance from it most commonly in the equatorial zone about the line of impact or immediately opposite the point of impact (the point of contrecoup) and these two sites of rupture are associated with two different kind of blow. The runtures caused by slowly moving objects occur in the equator at a point where the lobe i lea t supported In contrast to this ruptures cau ed by rapidly moving objects occur at the side on posite the point of impact. The latter are most fre quently seen in military practice

Changes of the iris and ciliary body are commonly iridodialysis and peripheral di location of the iris or The latter are accounted apparent indectomies for by retroflexion of the iris and its incarceration between the ciliary body and the lens or by a rent

in the cil ary body

ing of the retina

Characteri tic concussion changes are caused by rapidly moving missiles which pass through the orbit without rupturing the sclera. In cases seen soon after the murv great blood red cloud of hæmor rhage are found in the retina interspersed with glistening white areas if the vitreous is not clouded by hæmorrhage After several weeks the glistening hite areas have di appeared are undergoing ab sorption or have been replaced by fibrous tissue placques in the substance of the retina or in the vitreous These changes occur in three situations viz adjacent to the site of impact in the macular region and in a few cases opposite the site of impact. Hæmor hages in and about the retina are of e ery variety. The four main changes found in the retina are shrinking and disappearance of the nucles of the granular layers vacuolation of its sub stance splitting of the retina into layers and fold

Evulsion of the optic nerve follows blows on the front of the eye penetrating wounds of the ball itself and penetrat n wound of the orbit at the s de or the back of the globe The mechani m of evul on varies with the nature of the injury the

nerve s either pu hed or pull d out

The rupture takes place in front of the lamina embrosa at the juncture of the nerve vith the reti na because here the nerve tissue consists almost entirely of naked axis cylinders whereas behind the lamina it has strong supporting fibrous lamella. continuou with the lamina

When a foreign body strikes the retina it may re main embedded in the retina in which case it often causes pucke ing it may perforate the coats of the eye and pass into the orbit or it may rebound and come to rest far f om its original track. At the site of the impact the retina is bruised or cut Not only are th rods and cones njured but nerve fibers pass ng to more peripheral parts of the ret na are div d d This results in a d tribution defect in the visual field which is fan sh p d from the point co responding to the les on e tending toward the pe iphery o the median raph

LYM N A CO PS M D

Wilder W H A Melanotic Epibulbar Tum r Di pelled by the Use of Radium A h Ophih 19 4 lin 355

Wilder reports a case in t hich a slowly growing tumor probably originating in a nævus v as treated for a total of 1 13 mc hrs by radium emanation over a period of two years. During the first part of the treatment the tumor appeared to show a definite recession but after the treatment was stopped it began to grow again Later when the doses were increased in size and decreased in number it again seemed to be arrested and somewhat dispelled but four months after the last dose from the radium emanation tubes it again increased in size. In another institute the patient was then treated more d rectly with a radium placque nine times in six months As a result the growth was entirely d's sipated and the pigment which had spread over to the fornices became so thin and scattered that at a d stance of 5 ft it could not be seen Today nearly two years after the last treatment the patient is perfectly well

No section was made and no operation per

formed

De Schweinitz believed the growth was a pig
mented epithel oma but Fuchs considered it a

melanotic sarcoma Thom S D ALLEY M D

Med ng C B S m Conclusions as to Cataract

Med ng C B S m Conclusions as to Cataract
Extraction C (M J 19 4 77

Meding draws the following conclusions regarding

cataract extraction

1 The method used h s little relation to the
end results because of (1) the w de range in the
skill and fitness of operators (2) the great variation
in the physical mental ind practic characteristics of

p tients and (3) the relation of the method of operation to the experience of the operator 2. Unless the cause of a condition is known it cannot be known whethe relief ill be given by any given method of treatment such as prelapse of the

ins by indectomy intracapsular or extr capsular lens extra tion routine preparation to prevent in f ction or routine postoperative m nagement

The tre tment must be adapted to the require

m nts f the particular c se the s choice of operation s an intra c osular e traction in which the ligament is ruptured from within by means if his modified halt fore ps with t small balls on the r tips These forc ps ar int oduced closed in the same manner as the original forcep The position of the balls can be determined f om the bulge of the iri With th forceps grasping the globe definite pr ssure is made to bring the lig m at forw d and the forceps are then opened and closed to rub the onula from about 4 to 8 o clock If the lens is di located the operation s finished by the Smith method but if the lens is not dislocated the forc ps e used again T o ad antages of this procedure are th t it will do no ha m if it fails and the indectomy follows the L L McCoy M D d slocation

Wiener M Posterior Scierotomy with a Perma nent Drain for Retinal Detachment A is Ophih 19 4 1 368

Wiener reports asken cases of detachment of the return In four operation did not result in perma nent benefit or it made the cond ton worse. In two there was marked improvement in vision after operation complete re attachment taking place. In one case the time since the operation has been too short to warrant conclusions as to the outcome.

too snort to warrant concusions as to the outcome.

The author makes a double trephination of the sclera in the area of detachment r or 2 mm apart and introduces a small bit of horsehair th ough the Openings.

EAR

Mackenzi G W The Appearance and Beh for of the Normal Tympanic M mbrane Lay g

The author states that the average textbook door to inform the student sufficiently concerning the anatomy of the normal sympan c membrane and that unless the toologist is similar with the anatomy he is hand capped from the start. In a review of the anatomy of the normal sympanic membrane her ability attention to observations of his own which did the state of the sta

Watson Willi ms E Labyrinthiti B 11 M d
Ch J 024 xh 35

The author states that becaus of the danger of meningeal infection an operation on the labyright is indicated imperatively when acute panlabyrinth is supervenes on a chronic otitis media or on a choic circumser bed labyrinthits. It is indicated also in cases of deal laby rinth.

When laby rinthine symptoms occur in the course of acute official secontra indicated and in so event should it be performed if the labyrinth is still functioning unless when the cond ton is circum scribed a disabling vertigo renders the added risk unstifiable.

Orro W R rT M D

Smith D T The Lauses a d T eatment of Otili Media I Obs reations on 205 Case O curring in 613 C neceuti Hospital Admi ion Am J D Ckid 9 4

Of 613 patients admitt d to the hospital 33 4 per cent had out 8 media when they came in or de el oped it while they 1 ere in the b p tal

The race and sex of the patient seem d to have no relation to the i c de ce of the dis ase

A definite seasonal variation was noted in P bruary the inc dence w s 473 per cent and in July only 3 per cent

The most suscept ble period was bet een the ages of 3 and 15 months. Of the children in this goup more than 50 per cent h d outs medi

Fifty per cent or more of the patients with pneumonia dysentery na al diphtheria pertussis and pyelitis developed otitis media: In those with prematurity nephritis and the non infectious discases the incidence of ear infections was less than 22 per cent.

Hamolytic streptococci were isolated from the aural discharge in 56 per cent of the fifty cases in

which cultures were made

The average duration of the disease in 100 cases

was twenty five and one half days

In commenting on the marked susceptibility of the babies between 3 and 15 months of age the author suggests that vitamine deficiency may play a rôle in lowering the resistance as practically all of the children in the series studied were on artificial feedings and most of them had received little if any colliver oil before their adm son to the hospital

Smith noted also that 60 per cent of the thirty patients with rickets had oftits media and that the age period at which susceptibility is greate t corre sponds rather closely to that of rickets and scurvy From eighty eight cases treated with synthetic

drugs and dyes the following conclusions are drawn repartically all of the Gram negative bacteria found in the ears in otiti media except pyocyaneus bacili: are killed by a o 5 per cent solution of sodium

hydrox1 mercun benzo phenone sulphonate

2 Pyocyaneus bacilli are readily eliminated by
treatment with 2 per cent acctic acid or preferably
with 0.5 per cent of the sodium solution which
contains 2 per cent acctic acid

3 All of the Gram positi e bacili found in ohiis media except streptococci are readily killed by

otitis media except streptococci are readily killed by gentian violet

4 In otitis media with streptococci neutral

acrifiavine is more potent but even this drug is not entirely satisfactory

Twenty cases of chronic otitis media were cured by local chemotherapy in an av r ge of seven days each and sixty cases of acute otiti media were cured in an average of thirteen days each

Mastoiditis did not occur in any of the eighty right consecutiv cases treated by loc l chemo therapy but in 4 per cent of the c ntrols a mastoid operation was neces ary Orro M Rorr M D

NOSE AND SINUSES

In den Wildenberg. The Surgical Treatment of Ozen (Le tr tem nt h ru gi l d l è) i h l l d l g l 9 4 xx 58

Surgical treatment is tool a replacing the ineffect thal medical treatment of feet distrophic rhins but Balf nweck. Jaccod and Moulo guet have reported cases benefited in from 18th to register months by the use of autogenous vaccines. Autogenous vaccines have powed better this must work vaccines. Larg quantities of diphtheria and tourn have also be in used recently because of the Iriscince of the Loeffler bacillus in ozenia and apple with have been beneficial.

Following a review of the numerous reported plastic surgical procedures to decrease the size of the masal passage in ozena by mobilization of the masal passage in ozena by mobilization of the masal walls the author describes a new pro educe which he devised in collaboration with Higger Except in the cases of unimangeable children this is performed under local anaesthesia, preceded by a poderme injection of morphine. The sunsolacial wall canine lossa pyriform inci ure and inferior part of the septum are infilitrated with 1 per cent novocaine with adrenalin a transmental injection of 5 c m of 10 per cent couract is given into the martilary sinus and an injection is made into the sumenor manifulary nerve.

Along an necsson from in front of the middle turbinate across the nasal floor and up 1 cm on the septum the mucopenosteum is stripped up to the level of the inferior meature and the facial wall to expose the py nform crest whose projecting edge guides the vertical section of the marillar sinus wall. The turbinate and septum are freshead to promote the formation of adhesions. The nall wall of the marillary sinus is ectioned anteriorly in the with the mucoperiorities incision and anterior post norly at the level of the misal floor as far as the posterior sinus wall. The nasil antirum wall is lifted or against the septum. If the marillary sinus is diseased it in criterted (one case in eight)

The displaced bone is held with a pack. In cases of certanal cellargement of the nasal loss as the middle turb nate is Irishened and Justacel to the septum Packs are left in piece until the mobilized anteum wall has become consolidated. If turbinosepstal and hesons interfere markedly, with respiration because of temporary swelling of the microsa operation on the opposate naries is delayed for several months. The adhesions are essential to hold the displaced external vall.

In tharty eight cases the author had two compilerations—a philegrom of the lot er lit that health rapidly and a slight comphora. One patternic covered his sense of smell and taste In streen cases operated upon from me months to one ji t ago all signs of ozera hive disapparate! In three the condition was improved. In foar the operation failed c mpletely and in five the immulation was insufficient. Most of the patients had irred medical treatment. Those who were benefited now require irrigations much less frequently. Some of the cases were operated upon again after a year or operation of the cases were operated upon again after a year or operation of the cases are operated upon again after a year or operation of the cases and the case of the cases are operated to the action of the cases are operated to the action of the cases are operated to the action of the cases are operated to the action of the cases are operated to the action of the cases and the case of the cases are operated to the case of the case of the cases are operated to the case of the cases of the case of t

The endonasal route is preferable to the trans manulary route more read ly accepted by the pattent more simple and les mutulating it renders bone grafting unnecessary and improves the condition of the mucous membran

Van den Wildenberg advises a trial of vaccino therapy in all cases of ruld or moderate ozena When it fails and when the condition is severe surgical treatment is ind ated. In patients cured by vaccines the mucosa of the nasopharyny is thin and smooth and there is phirpingcal drine's Folfoung surgical treatment it is thick succulent and apparent! hypertrophical At the present time surgical treatment gives the best results in most cases complete failures are rare.

WAITER C B TREET M D

Rocher and Anglide Fibr gliomata of the Nasal Region (les fibr gli mes de l' region nas le) Res d ch Par 1924 vii 47

Fibrogliomata of the nasal r g on are soli I being congenital tumors of slow growth. They cause deformity of the nose and obstruct breathing. Depending on their location, they may be livid d into three groups, the extranssal the intransasl and those that are both extransasl and intransasl.

The extranaval fibro, lomina are situated in the root of th is se extent on its lateral a peet and sometimes invale the orbit of the eye and pas to the other side. Bey range in size from that of a no it to that of a chestin t and are ro ind and smooth. Ye peed elemay connect them with the brain. The skin over them its free or adherent and a camillar, formation etc. It is reddish him.

Intranasal fibr gliomata are con called in the nose or protrude through the nostril and are attached

by pe licles

Fibroglomata which are both intrinsal and extranasal end a branch from the external a pe t of the nose into the nasal fo sa

of the most fitted the assard of an order of the terms of the terms of the net of the terms of t

The r mov l of the e tumors is indicated for cosmetic e son to prevent b tructi n to respir tion and to pre ent mal grant degen ration

It i vers imports t to b r in m 1 th t th pedicle m ha a nal from which cer brosp n l il it man i ann ani that is this rout. [attal meningo-en ejhalti may be prod cel. Recur rences ha e been trated su ces fully with rad um Fries M x MD.

Bou gools II A Mall n nt Turno of the Floor of th N al Fo a Cured for On Year by Roents n therapy Dental Complication m is d let from des fosses a les traites at t fr p soll m t d will the first design of the fosses a les to the first design of the fosses a les traites at t fr p soll m t d will take the fosses a les traites at t fr p soll m t d will take to define the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses a les traites at the fosses at

The pai int a min aged 45 ears had been cured of a neoplasm of the larenz be rad otherspe three

years previou h. He consulted the author because of a vegetaine easily lededing polypoil gro th causing obstructs in of the right, i.e. of the now. There is an opinidiar enlargement. The mass hybern unsucce shalls, treated by cauternature and instruction of the result of the control of the properties of the properties and the properties are supplied in the properties of

Fight months after the treatment an acute absects formed in the postern part of the upper jar on the right sile. Inc soon rev led a perf attorn die hantum at the second upper right rile in de truct on of bone suif ci nt to admit the Itiliang r. Ufter-entraction of the molar ase on labers devel pel just behind the first one. This absect all owas incisced and demand. The turn r has eat all owas incisced and demand.

The case is of inter t because of the marked radiosensitivity of the turn rs of the laryna a dro-se and the destructi n of the mot r tooth ith sibre qu nt suppuration osteris and s nobuce) for a resulting from the V rat treatment.

W LTD C BEREFT MD

MOUTH

Corachan M. Dymoid Cy is of the Floor of th Mouth (Qu tes d tm les 11 lo d 1 bors) Cl 71 b 934 4 3

De moid cysts in the floor of the mouth are f riverage. Finding of gically such cysts arise from ectod rm invaginations in the zecorresponders to the

up per branch al cledis. The such has operated pon three cases of the type. In the cases it was pould to term, either the cases it was pould to term, either the cases it was pould to the case of the

flunt d sect.
In two of the authorse sight turnew single holding in In the tuation the ear us all fithese.

I cause it the send allows incy it these turn is the simit me transfer lint at the scassific firm all duthese executed in phination must call numbers of the transfer of the time. The damon is expandintly with the scale of the time. The damon is expandintly with a scale of the time.

NECK

Baccarini L Congenital Cysts and Fistulæ of the Neck (Contribut all at he dile ist e dell fist le c genited le ll) 4 ch tal d ch 1924 lx 70

Baccarini has operated upon eleven congenital fistula of the neck due to crests Seven of the patients were females. In three the symptoms dated from the time of birth in fi e they were noted before the fifth year and in three they had been present for less than ten years

Four of the fistulæ were lateril and seven were sturted in the median line. Two of the three

lateral fistulæ cannot be considered as derived from abnormal persistence of the branchial clefts or from an embryonal rest of the thymus canal From what is known at the present time regarding the develop ment of the branchial apparatus and the organs derived therefrom it was endent that these two cases could not be explained by any of the h. potheses ad anced to date. The third case appea ed clearly to be due to the persistence of the thymus canal in almost its entire course. In one case of lateral fistula the les on was found to be a solid cartilagin

ous rest of the fourth branchial arch Of the seven median fi tulæ fi e were e adently due to persi tence of the thy roglossal cord. One case was due to the accidental inclusion of ectoderm. In the last case which differed greatly ir mithe others h stological examination suggested that the condition had its origin in a group of cells of the floor of the mouth which became mechanicall detach d in the

mbryo and dragged inward by the thy fold No single interpretation explains the patho genes s of all types of congen tal tistula and cysts of the neck because their formation is dependent upon different anomal es of embryonic de elopment of the

branch al apparatus and the organs dert ed from it Fistulæ situated in the median line usually develop late The epithel al ests become trans formed primarily into cysts and secondarily into fistulæ by some nflammat ry proc or an incom p! te surgical operation

The only satisfactory treatment of congenital cyst

or fistula of the neck is complete erad cation Il A BRE A

Ros t usche M The Thyroid at the Base of the Tongue (Zur k nat d Schild us am Zu g grund) De tch Zt k f Ck 923

Rossteuscher repo ts the c se f a 32 year-old woman who sought treatment fo a tumo of the tongue which h d been pres nt for t o years and had grown rap dly during the last six month causing excessi e mucus ecr ton and choking Examination reveal d at the bale if the tingue a firm tumor the s ze of a alout The thy roid gland could not be palpated in its normal posit on

It operation performed und local and thesia the trachea was freed and a careful earch was

made for the thyroid but it was not found tracheotomy having been done and a Trendelenburg tube inserted the tongue vas drawn out and a semicircular incision made o er the tumor On backward dissection of a flap a grayish globular tumor was exposed Half of it was removed Hemo tasis was effected by means of catgut sutures and the mucous flap replaced. The cannula was removed on the following day Except for slight infection of the tracheotomy wound healing oc curred promptly. After six months the patient was free from complaint. Microscopic examination of the preumen howed it to be thyroid tissue

About 100 cases of tongue gotter have been reported Rossteuscher explains the biology of the thi roid and the genesi of ectopic and accessory gland Clinically three types of tongue thyroid can be distingui hed (1) those with symptoms of hypothyroidism (2) those in which besides the tongue thyroid another thyroid is found in the normal position and (3) those in I high the only thyroid tissue is found at the base of the tongue

HIGHWANN (Z) McCarrison R Golter B t M J 10 4 oSo

The stimuli which cause enlargement of the thy roid gland are of three kinds nervous metabolic and microbio

Simple goiter includes those forms of the road he nec t oph; which are commonly spoken of as sporadic epidemic or endemic goiter though there i no ex sent al difference bet een them Five per cent of gostrous mothers are liable to give birth to cretinou or otherwise defective children

The three period when thy roid disorder mo t commonly develops are (1) fetal life () adoles cence and (3) pregnancy and lactation. The condit one of he which fa or the development of goiter are improper food imperfect hypiene and infection

Defi 1 nes in the supply of sod ne may be due to insufficient intake inadequate assimilation or utilization or relative deficiency in proportion to other food con tituents The thyroid has a re markable affinity for iodine (oiter does not develop if the iod ne store of the gland is kept above o I per cent. The maximum storage capacity of the normal gland is 30 mgm of sodine The presence of suffice nt iodine in the water supply will prevent collo d gotter and the hyperplasia whi h precedes it. It does not prevent or materially change the course of exophth Imic go ter but not infrequently it stimu late everartion of adenomatous goiters and this once started may continue for years without further admini trat on of rodine. Any unusual demand on the part of the tissues for thi roxin ; Il stimulate the thyro d gland and re ult in hyp rplasia

While a defice ney of sodine is the immediate cause of thyroid hyperplasia and hypertrophy it is not the ultimate cause is any agency thich brings about a lack of iod ne which interferes with its utiliz tion or i hich increases the needs of

the organism for thyroxin

The prevention and cure of goiter therefore depends thiefly upon (1)gineral hygiene and especial by hygiene of the gastro-intestinal tract and (2) the amount of lodine available for the needs of the thy rold gland and the organism in ceneral

Conditions in the intestine may be such that the a salable totate or other constituent of thyrorun is not utilized. In such cases constituation and immeries feet dramage of the bowel must be correct? In testinal antiseptics alone have been beneficial in reducing the size of a hypertrophical thyroid and their curative value in this di case is now beyond dispute it appears that the disinfection of the bowel makes the roduce ingested more readily available for the time of the contract of the contract of the contract of the contract intestinal board are shift to presence of certain intestinal board are shift to presence of corganism for thyroun as do certain infections or organism for the small amount of soline contained in the food that would otherwise be available to the thyroid for the elaboration of thyroid of the elaboration of thyroid for the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of thyroid of the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the elaboration of the other than the elaboration of the other than the elaboration of the other than the elaboration of the elaboration of the other than the elaboration of

The method of preventing gotter by the administration of tooldness issimple rational cheap and with out ill effect if it is applied properly. Two grims of sodium toolded should be given in o 2 gm doese over a period of two weeks every spring and fall. This treatment is best administered at the openeds of life when gotter is most apt to develop. The call for it is more urgent in the female than in the male

CYRIL J GLASPEL M D

McClendon J F and Hathaway J C Inverse Relation Between Iodine in Food and Drink and Goiter J Am M A 924 km 1 1668

The quantitative analysis of the iodine content of food and water from go trous and non gostrous regions of the United States showed a marked deficiency in the gostrous region Variations as great as 1: 8470 were found

Retention of to fine from a normal diet was demonstrated in a three day period during which the intake and output of iod ne were carefully determined

Statistics prove that in the United States both simple and exophthalmic goiter are caused by iodine statistion. William E Shickleton MD

Plaundier M and Wiskott A The Golt r Question in Bavaria (Zur Kr plir ge in B 3 r) If n h n med it i ch 923 l 427

The authors summarize in a table the replistic view to a questionnaire which was sent out because of reports that the incidence of go ter in the lifeth in Bavaria is increasing. Of 170 replies only fifty time reported such an increase and more than half dequed it explicitly.

The zones with an apparent inc ease are scattered thro shout the country without regard to the recog nized goiter regions or geological ethnographic climatic hygien c cultural or social factors

It is frequently claimed that goiter is a creasing among the school children of the large cities However even if the goiters of adolescence are

counted the frequency of gotter is not nearly as great in Bavaria as in Switzerland In Switzerland endemic goiters beginning with symptoms of hypo thyroidism and changing to endemic cretinism pre dominate and by iodine prophylaxis cretinism is attacked through the goster. In Bavaria cases of hyperthyroidism are two e as common as cases of hypothyroid sin and the frequency of this condition is not greater in the rural districts and in boys as is the case in Switzerland Moreover in Bavaria there are few reports of local or endocrine changes in children therefore many of those with goiter do not have a true thyro d disease. The symptom of gotter may be very differently interpret d particularly as regard the reaction to jodine

The authors distinguish three chief types of gotter (1) gotter due to compensatory changes (2) gotter caused by external injunes irritation gotter and (3) gotter of a blastomatous character

tumor goster
In cases of the first type as well as in go terdue t
deficiency of sodine the administration of sodine
may be beneficial or Injurious

In cases of Type 2 todine is generally injunous In the cases of hyperthyroid adults the suthors age with budeck that isoline therapy is to be avoided. Even among non gostrous persons there are some with glands ready for hyperfurct new ownld become thy rotoxic if given todine.

In the authors clin c more or less compensated byperthyreoso; associated with subnormal status predominate while in their private practice there are more byperthyrolog dotters especially cases of mild gotter heart associated with normal at tore. Therefore physicians are justified in rejecting mass and the contract of achieving the frequency of the determinant of achieving commended the commendation of t

recognized to Lens solute has a specific action according to Lens solute has a specific action according to the fetus but also on the specime solution and the specimental animals at has produced sterily leven when it is given in small doses sol dokuser influences must be attributed to it which may carefully injury. Therefore a great a sixt per philars is not to be recommended for Barxan as a whole but though the great and arrive and a steril a

Schroetter II A Report on the Present Status of Goite Prophylaxis in Au tria (B r cht ueber d a geg aw 1 a a d de kropip phyla n Oct etch) ii, ii lich k 9 3 xx1 78

The fact that g ster is incre sing not only in the Alpine valleys but also in the lowlands and particularly in the cty of Venna has stimulated for their study with regard to the cause and distribution of the condition and the means of combating it. The Wagner Jaureeg theory advanced twenty five years ago that the cause of goiter is insufficiency of iodine in the food has found many more adherents than the theory attributing the condition_to in

tection

The health authorities have now (April 5 1923) deed dt to have prepared and distributed to the public under the name entire sailt a common sail to which iodine has been added. This sailt contains in accordance with Wagner Jauregg's proposal coops more protessum nodde per kilo. Therefore when about 10 gm of common sailt are corsumed daily the organism recet so ony mgm of notine Many sea sailt—the Franch for change—the protess and the so or 10 gm per kilo are not in mirrous.

Todine medication must be suited to the type of roter and remains the province of the physician By the constant administration of common salt centaining index it is sought to eradicate gotier and returns automatically as it were and independ only of the inclination or desirediments of the other constant of the constant of the constant dren and adolescents but the entire population and will be both a therapeutic and a prophylactic

measure

In the manufacture of the enti-e salt sodium childred is 1 el strured while solded of potassium is distributed upon it in a fine spray. Tests above approximative even distribution in the form of precipitate or absorption. If the salt is kept from one to two months the sodium will collect in the upper and lower layers but this can be prevented by stiring it from time to time. The price is the

same as that of ordinary salt

In all state and public institutions sociated salt is already used exclusively in the preparation of food One million copies of a pamphlet by Wagner Jaureg entitled Guiter and the net cooking salt are being distributed by the government as proparation for gener p ophylaris. In addition an allow greated for gener p ophylaris. In addition an allow action for a proper power of the properties of the propertie

Surgical intervention is indicated by pressure on the respiratory passages interference with vital functions or dystrophic changes in the organ (Basedow). In such cases operation should be performed without hesitation.

In conclusion the author makes the proposal that the central government be called upon to meet the cost of and make

 Geological hydrological and meteorological studies of the d stribution of todi e in dinking water and niver water and analyses of samples of soil
 Experimental and clinical investigations on the endocrine system

3 Further collections of statistics regarding the occurrence of goiter in Austria Zipper (Z)

Bircher E Experimental Research on Basedow s
Disease (Experimentelle Untersuchungen ueber
Morbus Bas down) S hu med Wchnichr 1924
hv 84.

The author refers to experimental work he report ed in 1012 and in which he succeeded in creating Basedow's disease in does by implanting thymus tissue. In three cases in which material obtained from chincal cases of Basedow's disease was used be succeeded completely in producing the clas ical signs of this condition viz protrusion of the eyes gaping of the evelids changes in the heart action with strong pulsation in the carotids Is mphoes tosis leuconænia a distinct struma twitchings general restlessness excitation and glycosuma. In three other cases in which he implanted infantile thymus the exophthalmos and increase in pulse frequency were only temporary According to Nordmann Hart infantile thymus does not have a toric effect The results were more marked after implantation than after injection of the expressed juice

It is probable that by way of the nerves the town attacks the circulatory system first and then the thyroid before the other endocrine glands. Histo logically the adrenals are also affected. After thymus implantation marrow hypoplasia is found in the paircreas attrophy and a decrease in the Langethans cells were noted in one case. The spleen showed diminution and shrinkare of the follicles.

To study the causes of thymus death the thyroid was removed from experimental animals from thirty to fifty days after the implantation. The implant then slowly attorphied From eight to ten days after the removal of the thyroid the animals developed apathy with an increase in the pulse rate muscular tremors endems and loss of hair mad death tremors endems and loss of hair and death quickening of the respiration and pulpersuce and quickening of the respiration and pulpersuce was gained that as the result of the tenoral of the thyroid which acts as an antagonist to the thymus the adrenals are no longer sufficiently stimulated, and hyperthymizion results

The author concludes from his experiments that the thymus can cause a decided disturbance in the entire glandular system and can produce definite Basedow's disease

Dris (Z)

Salvesen II A Studies on the Physiology of the Parathyroids Act m d S a d 1923 S pp vi

The removal of three parathyroid glands in dogs (eight e per ments) did not produce tetany in any case. The blood sugar remained unchanged the alkali reserve was usually lowered temporarily and the serum calcium was reduced from 10 to 7 mgm per 100 c cm of blood.

The subsequent removal of th fourth parathy roid gland in sax of the dogs and the removal of four parathyroi! glands in four furnished the material for studies of what the author de ignates as complete parathyroidectoms. Five of these dogs died of tetany within three and one half days and one in twenty two days. Foar were saved

by repeated intravenous injetions of calcium choiride a mill det and in some cases the admin i testion of calcium saits by mouth. When retary occurred the blood calcium was always found to be lelos 7 mgm per 100 ccm of blood. The dogs that were saved! the calcium treatment developed testan, when placed on a meat d et but recovered regain when given milk.

Wilk freed of its calcium was not found effective in century team. During the strge of latent team the introgen metabolism was normal but the cirbohydrate tolerance was lo cred. A ubcutan cous injection of 3 gm of guandine chloride cause I convulsions but had no effect on the blood calcium.

Th author concludes that the cause of the symptoms of parathyroid insufficiency is calcium deficiency.

Lester R Dragstept M D

Collet F J Twenty Five Cases of Laryndeal Hemiplegla Du to War Injuries The Inner vation of the Larynx (\(\bar{V}\) gi-ctop \(\begin{array}{c} \lambda \) the bles es d gu \(\colon\) cons le at ns \(\beta\) fat in du laryn \(\beta\) \(\lambda\) n men i \(\delta\) in \(\beta\).

From a detailed clin cil study of twenty five cases f larynge 1 hemiplegia due to war injuries the author frams th f llowing conclusions

Laryngeal hemiplegia from war injuries is due as a rule to a les on of the agus and more rarely to an injury of the recurrent laryngeal nerve

Alesson of one vagus alon i suffe in it ogive ne to carthei distributares. The mot torming cardiac disturbance is permanent accel rition of the pulse the rate sometimes being as high as 140. After miny years a Cardia disturbance on some fine aldisturbance of more fine aldisturbance to the part at the cardiac and the

If m tlegia may be simpl or of the gloss la ryng al calatolaringeal ph ryngolaringeal or la ryngoscapular typ. The press ne of complications may indic t the livel of the right in the vigus a ite al its location in the upper part of the pleasiorm gired.

In c. ex of imple larning al hemind guith presence of sensors in olyment is the best criters in of involvement of the superior larvingeal in m. The prict tion of motor disturbances in addition at those chirt institute of recurrent in m. p. 183 is

t those chr t natic of recurrent n ry p lay is more difficult. I some case the ladure of the tensor se mat to be the forminating fact it.

The difficult is between a less not they gos bely with a petric I rung I n rive and an inj. ry.

of the recurr nt n ree rests on the arduce disturbances. Many c see f so-c lied recurre t nerve lesso man be cases of pa lys sol the gus abo e the emerg nee of the recurrent nerve

The ep glottis has been f un't de ated o ly in gloss phiry golaryngeal hemipl gia. Thi devi tion has been i cor tant Vasomotor involvement is very rare and has been noted only in high leasons capable of affecting the superior laryngeal nerve with in been it of the hypoglossid or the main sympathetic. The reur rent larvinged nerve does not appear it of businessid to the main sympathetic and the superior larving the su

The paralyze I vocal cord is usually imm billed in the cadiverte or the milline i site in with er vithout palsy of the tensor. The fixation of the cord in the median potton is relatively medically in transmitted lessons than employee.

paritises

Only traumatic palsies permit specification of the date of compensation by the highly cord of phenomenon is defined in the first to profit sometimes sooner and wealth in nell citable to

at the end of four or fi e months.

Median fization of the cord is a par l ti e t an irritative phenomenon as as beleved f mer li. It coexists with the phenomena of d factor—the latch car l a rule the summer, on of the popular

locardi: creft v

Except for the flaments supplying the imperf it transverse any tenoi I muscle the findings in training the state of the findings in training the state of th

innervated by the recurrent larvingeal nerve

Kramer R and lank er S Hemangioms of the Larynx L yeg of 19 4 x 405

To the seventy five unquestione I cases of hamar gi ma of the hirror reported in the I terature who were critically revie ed by Moore in 1922 the authors a ld fourteen others thirte a f which or

curred in their pri ate practice

Hrmang omaia are ben an tumors orgs it, from the blood is est of an 3 red its types (t) harma groma smples in which the walked ther p) formed essel are more of e. p. ralled wither a other and (z) harmagroma e verns am wh h is mode up of it gular blood poes secondary conflications are inflammat on harm tribages his lattices as reinflammat on harm tribages his lattices are inflammat on harm tribages his lattices are inflammat on harm tribages his lattices are lindament on the inflammation and the lattices are lattices the lattices of the lattices of the lattices of the lattices of adult his Co genital harmagn mata event in hillhood are different from the self-reserved to the lattices of the latt

In cases of humangama I the I come the relieve an abstore of lary geal (in taken A ref the relation hip of the I (tor) to the caston humangaona mu the bonne in mund. The with relieve irritation in the case relieve The abject is a more than the cases relieve and were disturbated or of

speech (hoarseness occurred in over 50 per cent) dis turbances of respiration (dv pnæa occurred in 5 of the ca es previously reported) disturbances of de glutition (dy phagia and comiting occurred in a small percentage) disturbances of sensation in the form of parasthesia and hymorrhage (blood) expectoration occurred in 15 per cent) The duration of the symptoms ranged from four weeks to fifteen vears. The tumors ranged from 2 mm to 4 cm in dam tet and were red. Some were sessile but the majority were pedunculated. While every portion of the interior of the larvnx has been involved the tumors are usually found on one of the vocal cor i The most characters tic finding is the phonation s gn On phonat on the tumor shows increased firm nes erection and slight diminution in size and takes on a darker hue. The authors con i ler the phonation sign mo t important in the differential diagnosi from pecine granuloma cysts fibromata varices submucous hamorrhages and vascular malignant tumors. In cases of congenital hamangio mata which are usually situated belo t he cords and are sessile the principal symptom 1 respiratory difficulty

A spontaneous cure of hæmutigiona has not been retroorded. The prognosis following trantment de Pends on the size and type of the tumor and the rethod of treatment. In all of the authors cases the cu- has been complete to date. Their method of treatment has been surgical rome al either by in direct larynapsopory and the use of cutting forceps or by suspension larynapsopory and sharp discretion. The authors believe that all of the small tumors should be operated upon by means of forcep or a care under durect or indirect! ungoscopy and that a getunous are best attacked by suspension laryn a getunous are best attacked by suspension laryn a

goscopy and sharp di section. As in cases of small tumors radiation loes not give as good results as operative procedures it should be reserved for more or less wide spread lesions and recurrences.

MANFORD R WALTZ M D

Blair V P Radical Operation for Estrinsic Carcinoma of the Larynx in Otil Rhi 1 & La) fol 924 x 111 373

Blair is of the opinion that even after a carcinoma his extende I well beyond the confines of the larving either directly or into the lymphatic nodes of the neck it may still be curable by proper surgery

Light thorough packing of the resulting wound is a much safer procedure than primary suture with free multiple drainage Packing of the wound and the upper end of the tracher should be carefully maintained until the woun I has healed spontaneous by of the fittle is closed by secondary suture

The author believes it is best to remove the in volved tissue in one mass and so that the closure of the external opening will be spontaneous or will require only a simple secondary operation

I reliminary tracheotomy was necessary in almost every one of the eight cases reported by Blart 1 to opining was made several days or weeks before the rad cal operation and the trachea i olated after the plan of Crile

Of the eight patients whose cases are reported two who had extensive extralary greal involvement have lived six years or more after the operation with our recurrence One patient has been free from recurrence for more than three years. There was one death from recurrence. In the author's opinion the three postoperative d aths might have been prevented.

SURGIRY OF THE NERVOUS SYSTEM

LEFERS COPIERNO EN CPANIAL

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that a more correct percentage is 33 for temperosphenoidal abscess and from 10 to 15 for cerebellar abscess

An abscess should be operated upon in a hospital by a special team who are doing only that work Operation should be done immediately as soon as all data have been obtained and provision has been made for every technical procedure that may be necessary. This preparation includes the recording of the history in detail a complete neurological in vestigation made preferably by the surgeon himself the study of the visual field and an \ ray examina tion Care should be taken in doing lumbar punc tures ince in localized suppurative diseases of the brain they are dangerous. In the operation on a temperosphenoidal lobe abscess a large flap should be formed The operation is hard manual labor but should be done as quickly and as bloodlessly as possible The intradural work must be done with the greatest delicacy and the most painstaking technique

The facts that in meaningtis septic symptoms are due to alteration in the character of the spinal fluid and that in nearly all cases the condition is at first localized have led Eagleton to the conclusion that recovery is more upt to result if the localized collection of fluid is evacuated. He now operates on cavernous sinus thrombous by ligating the common carroid eviscerating the orbit removing the wing of the sphenoid and opening the sinus. His two crowsers he attributes to the chimination of the motion produced within the sinus by the pulsating aftery Maystopa R Waltzr Mid.

Pusse L Tumors in the Region of the Sella Tu clea nd Their Operative Treatment According to the New Fronto Orbital Method (Die Geschwu iste d'r Regi sellae tu caa d hr oper t B h ndl g nah der neue fronto obti 1 M thode) 22s k f d ges Neu d Prydad 10,3 lar 11 427.

The author reports sutteen case in detail. All of the patients showed the picture of Foelchs distrophia adiposogenitali and some of them windences of actioning 1). Nearly, all of the tumors extended beyond the sells to acca into the base of the cranium B B means of the transituation of the temporal route it may be possible to remove a portion of such a tumor and to educe the p essure giving temporary symptomatic relief but radical removal of basal tumors in this magner is impossible.

The author therefore devised a new method and in a period of ten years has emply ed it inneteen times. The infundabular region is approx hed under the frontal bone on one side through a supra the supra the supra the supra through a supra through a supra through a supra through a supra through a supra through the supra through through the supra through through through through through through through throug

easily be pushed upward and the way behind the chiasm is free. The tumors or cysts are removed radically if possible and the wound is closed after drainage for twenty four hours.

In three of eight cases of sarcona a permanent cure was obtained in adult of the case of sarcona a permanent permanent in the case of adenomal was permanent of three cases of adenomal liwer cured. In one of these cases there was a family history of tumor of the hypophysis. Evcellent results were obtained also in four cases of cyst The cysts were radically removed not merely drained. The recession of practically all symptoms even severe for turbanes of vision was remarkable.

To date a pre-operative differential diagnosis bett een the various types of hypophyseal tumors has been impossible

In cases of acromegaly the bony changes persisted but the changes in the soft parts disappeared partially

The author regards both dystrophia adiposo genitalis and acromegaly as e idences of compression or d sturbance of the nerve centers at the base of the brain particularly in the region of the hypothal amus It is possible that they have nothing at all to do with the hypophysis This is indicated by the fact that after total removal of the hypophysis performed on animals by Camus and Roussy dystrophia adiposogenitalis did not occur al o by the fact that after the removal of the entire hypo physis in the author's cases the symptoms receded and a complete clinical cure of the syndrome Pussep's theory is strengthened by roentgenograms made by other investigators which showed the sella turcica not enlarged and by those in one of his own cases which showed it to be flattened and smaller than normal

In cases in which on the basis of the rocetigen ray peture uncomplicated disease of the hypophysis is suspected the raisal approach is equally as good as the fronto-orbital approach and perhaps better. For the localization of the tumor good different and points are afforded by the signs of increasing pressure in the brain such as symptoms in the region of the oculomotor or even the trageminal nerve which reveal a tumor growth in the crain is cavity and indicate the fronto-orbital approach.

RIGE (Z)

Smith S Aneurism of the B silar Artery Simulat lng Opium Poisoning B t M J 1924 1 994

Smith reports the case of a man 30 years of age who became suddenly ill with healache vomiting and chill Loss of consciousness followed in a few hours and death occurred at the end of four days A diagnosis of opium poisoning was made but treat ment for this condition was without effect

At postmortem examination all of the organs were found normal except the base of the brain where a fusiform ancursm of the basilar artery was dis covered. The ancursmal sace was filled with a non organized clot and rested in a depression which it hal made in the pons a fimodalla. Ti causata e condition at peare I to be a gummatous atterit but tremonentata wite nit linen trated

If d pre ion in the panen ariv occluded the I uett vente ele an l'exertel pres ur upon a fiscent attuctures including the nucl i f many of the cranial nerve and vital centers in the flor of the fourth ventre le Stran ly the compres ed area bowel much great a vascular to il n the other

In the of the marke if it's ure on the cons and me ! la the gatient h i be natt to atten l to h s work r gular with very I w compleme

The case empla i es the importan e of e nr ete l ection an I examinate n of the brain in all sich cases f su lien leatl C ML I CLE PT MID

SPIMAL CORD AND IT'S COVERINGS

D M t 1 Surgery of th Card and of th Spinal Root (Chur I I moell the le es) B I I moell to 10 4

De M riel agrees with I rate th 1 spor Lama neet my which bear teall firth pen g f the lura mat to not set a fut m intains th t l m inectoms which neces it tes pening I th dur

a gra e procedure In the remo al of t more within f light t the spinst cirl it is neces by t na jul to the cori and perhaps evin to injulit 5 h man pu latin ar them e ling to the high rith seg-ment fithe cord i lived

In th f tty tw cres I t m f ch r i onci ate ture n by de Ma t I th m real ty ranged fr m as per c nt early in the series to as per c nt in the cases the tel most recontl. Start's from th arious links g ettem rt lty sfr m 16 t to our cent

De Martel el um that only lami to a f an name fless sat cittinles far ni cit

The frogue of speration for cold time religion is up at the left the need small whither it is situated in fr nt of r behin I th T t

In the discuss of the paper K BINEAU t ted that he ha perf t ned twent) f ur pilur I lam meet mice with a mort I to of a t per nt and f rty n n intra lur I lum n et m es will io tality 11 / 1/ f 10 2 Der cent

PERIPHERAL NERVES

Heyman C. H. Tl. St. ff 1 Operation for Spatic Earthysis with a R port of Ti irty S. n. Cares Ohi St 1 M J 924 13

The Stoff lot rat n n ine no ty-o tin s in the tratment of the ty e n s of pists paralysis. The author is on in ed that a propely selected case this procedure fle s the great t hope of improvem nt Me t limi itm nti tota ntr in leatin n l frequently benefit d hinth con tractures are corricted. The on lition is du t a

festructive lesion in the cort parinal tract which int eferes with normal inhibitory cerebral impal es caus g exces we contraction and enasts ity of the affecte i nucl a with d formity. The perat nis base I on the facts that nerve bund es munta 12 er n tant relati n towar i one another within a perie trunk that fibers supplying a parate muscles or groups of muscles can be identified by elatrical at muleta n and that a or jun a gme to forre fibers can be resect ! The number of firers that should be resected a lipe lint up nith seventy of the contractor. If this i properly est ma d e milits um between fl or a 1 est nor ru-Frouts ma be test ted Overaty n has been direct th median se tie obtutat r an linternal and ex terrait cliteal ners & If structural shirten ne has occurred the contractive per t un ler deep anesthe a an I t n ! n l ngthen must be lon

The peratura is most suitable for en tractures bral sed in I fait must groups and is not in a ated in cases slow and fluse season of an entire extrem to It should not be used in a ses of athetos progre is elseases or hipeless along. There its e been best in e ntra ture of the thich and I c

Ih operat n is not intended to replace other m asures such as tenotoms an I ten ion transplants thin but in properly selected circular es of spart oparal it t un of the best m thous of im towns fan tu n I M LOUR RULL MD

SYMPATHETIC NERVES

L too A The Operati e Treatment of Ang na I ctort it pe tile Ber it g der A gas. pect i Med kl. 19 j. 1658

The author lend rest was not one operations f angina pect it which have be n'd scribed in the literat e nd r port an pe at n of hi o d mentioning the full cul v f method cal surgical tre time t I t our lak of kn I ige of the I I mi al h ng a lihyaiol ge i processes gi gen e lls a epted th sensors impulses from the n lucted b way of the rardisc h art an la rt n rees t th fret th ra c ar i the three cervi errous st m and gangla f the s musth t

through these to the spend riand brand by a the present time a e urgi I pr cedures have ten mpl) im the treatment (nema petr (1) rem lof the t i recrycal gr glia n I of the test the ga glon of the somt ath the on the lift id (a) e mo al ot exclu i n of the period recritical gangle of the sympathet con the lift d (3) rety al f the first s act ging! an i all f th c rvi al g gi n the left sil (4) hann fibe dires it nire none or both s les and (5) remo al f the upers and milli cra I g agla f th smpath tic and d vis n of the d pressor ner 1 th I ft s fe

Lach of these procedures ppe at have perma n ntly rel es d'the par but n'a fen c sin which operation was performed on the upenor symp

thete or a unlateral vagus operation was done sla, but parsers ted. Voorvoer the patient op rated on be the author while remaining fr from the rudust ing pain in the left arm suffice la return of pain in the thorn and gistine regin a lifer four month deep th fact that the entry left cervical sympathetic including the first thorace gringlin a sample the control of the sufficient participation of as operations on the painting and the sufficient therefore that most of the unlateral operations—attacks the case of the trouble

intonine author down is the variout theorie and a whole as to the course of the narre fibes which conduct the creations of pain. From the fact that the operations me tomost have stopped the pain he concludes that surgery; ju thirds when appropriate instruction that the conduction of the conduction o

determination of pain con fuction. The author advocate carly, operation in angina. Pectors due to vasomotor or nervous cau. He properties to the left sympath to the end of the first thoracc and all three evil grangha it is pain rad ates to the neck and o put the superior cervical simpathetic should be emoud a tream a unlected better no on case it may be be better to remove the depress. In resulting the superior cervical simpathetic should be emoud a superior of the superior cervical simpathetic and the superior cervical simpathetic and the superior cervical simpathetic and the superior cervical simpathetic and the superior cervical simpathetic and the superior cervical simpathetic and the superior cervical simpathetic simpathetic and the superior cervical simpathetic simpathe

In co clusion Kapp di cu s chinges in the blood pressure. In most cases the blood pressure falls after operat on Hells (Z)

Dr. mn n P. Th. Op mt. Treatment of Toph. Dr. thus bance by P. n. trail Sym. F. therefore, and the state of t

Sim lar phen men ere noted na a of ve y painful roentg n ul of th hand \ otewo thy eff ct ex rted by per terial symp th ctomy n the

healing of chronic ulcerative processes can be expected only in cases in which the factor chiefly reponsible is an angio pastic condition Syull (2)

Placint anu G In estigations on Wound Heal ng and Tran plantation Aft r Sympathectomy (V uh uder Wu heiu gu d'T an 1 l atton h Sympathect m) I ch f N n Ch 1924

By the end of the eighth day after unlateral resection of the cervical sympathetic in rabbits a difference was ob erved bets cen the normal and the sympathetismized si le in skin defects made in the ears. The epithelialization was more advanced on the sympatheticimized side than on the normal side and on microscopic exam nation the side operated upon showed more newly formed explainers wider upon showed more newly formed explainers wider distance of the termination of the contract of lation of the 1 mph of the contract of the side of the contract of the contract Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed of Sympathetic or operated upon no stassed or operated upon Sympathetic or operated upon no stassed or operated upon Sympathetic or operated upon no stassed or operated upon Sympathetic or operated upon no stassed or operated upon Sympathetic or operated upon no stassed or operated upon Sympathetic or operated upon no stassed upon Sympathetic or operated upon no

MISCELLANEOUS

Rolleston Sr II Holmes G Scott S and Others Discussion on Vrtigo Po Ry S M d L d 9 4 vu Sect Med Neur I Orbith & Other

ROLLESTON discussed the subject of vertico from the standpoint of the physician as apart from that of the otologist or neurologist

That touc ascular and functional disturbances at the cortical end of the vestibilities system may cau evert go appears exident from the occurrence of ertigo as an turn an ep leptics in the absence of a consuls on It is suggested also by the analo y of m graine and the occa ional alternation of migraine and ive tigo.

With regard to the manner in which general disease and visceral di orders affect the vestibular apparatus the following conditions were mentioned a Anaph lactic conditions affecting the semi-circular ca.

2 Endocrine di orders which induce vertigo by mod fving the vasomotor conditions in the vestib ular labyrinth

3 Gastro intest nall d turbances These may give n e to vertigo either reflexly through the brain stem by causing a fail in the prisure of the fluid in the veith ular labyrinth or by gene ating poisons which act d ectly upon the vest bullar system.

4 Arternal d se The ass cuation of disease of the art rus with vertigo may be the result of high blood pressu e causing micreased pre sure of the intralaby mithine fluid or of vascular spasm of the vestibular a tery o the cereb lar pontine or cere bral item. When arterno deross 1 combined

ith enal disease vert go may be due to increased exudation of fluid in the semicircular canal corre po d g to ordem elsewhere change in the vestibular nerve comparable to those in the optic nerve

the action of unamic poison or unamia a the frain stem, o rebellury and criter. In mal grant endcarditic embod mo of the eds of the labyrith may cause verticed to most fraing the conditions in the semicircular cardis.

5 laryngral vertig. The condition has been all a nel as () af rm of ead psy (l) the result of impulses realing from the agus nu leus to that of the vest bular news are to; the re old of the vest bular news are to; the re old of the sullen increase of pressure in the semicrocular analysis.

or small extravasati us ec un lare to va lent extiratory off et

6. Bl. sd. 1 seases. B th anxious an ferythramis
mas cause follow. The latt spool off) affects the

may cause filter. The last post when Te is the we fill ultrail at mall whit the former may a feet either it semi-ircular cast or the med II or enters an icortex. Le karma auses infiltrat in the semicircular constitution from the more legal Houser's drug of version from the neurol escal

standpoint di rilingit into three type (1) that i e to local c rel ral les on (2) that due to I flue corebralle: ny ar i (3) that occurring as a symptom

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on th nr u

The localist on causing entigent (i) these of the posterior forwar and (i); it is in the frebrain. The posterior for selections are (i) learn of the intracrantal per till in the settle this nerve and if we set of the point into of the entiral nerve was settle with a receiver of the point into the entiral nerve was settle with a receiver of the their bill receive connected.

with the lalymath such as parts of the meduli cer bellum and mulbrain. The less no of the for Leain are these that include

the cortex or use ritical white natter

The filuse rentral leason are (s) creebral arters of ross (s) anamus (s) oth raffection of the card o ascular set m (s) er trail neu in (s)) in no let the feet it we is has all his

The other nervous diseases Eich cause vertig are ep/lepsy an I religratine

Secrit discu ing vertige from the ofologial a pert ments ned possible pent heral causes such as infects e lab mathit. Inhymithine limitation from inhiddle car disease and tory nerve turn r os cur, anhylosis especially undateral and ine ciency of

th custachian tube

Fistra spoke from the ophthalmological a rect.

stating that the part pl yed by the even in the man
tenance of equ' brium legen is in the man tron
the function of the internal and est mal only

the juncti

Davias Crast in decising the disclayed happoint acuse of superfield. Win rea o case, caractes a nope largingral synonye and petiting, at that it small doese of qui nine do not cave a communit in of the vertigo in undat not cave a communit in of the vertigo in undat nal case it the cause us per lattly not in the a mic retular canal. It believes that qui nine equal zes the finds ace of the too I here the by its sed time act in no the countries.

He pooke also of some recent experiments whe have been made with regard to the action of the sympathetic nerve on the circulation in the bit was atthetic nerve on the circulation in the bit was atthetic nerve on the circulation in the bit was attended to the control of the by ninth to claim tester of the by ninth to claim tester of the by ninth to claim tester of the by ninth to claim tester of the still and one carotist circulation was used the circle of Willia been therefor the supplied by ally one carotist. The rapit ty of respon, to the call rect of was the nidestructure of the same at the nidestructure of the same at the nidestructure of the same at the nidestructure of the same at the nidestructure of the same that the nidestructure of the same that the same that is not attached to the load weeks of the like of the like of th

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SURGERY OF THE CHEST

TRACHEA LUNGS AND PLEURA

Jackson C Indications for Bronchoscops As Su t 10 4 lxxx 36

In cases of lung abscess thoracotomy should never be delayed in order that bronchoscopic therapy may be given a trial When external opera tion is postponed for other reasons bronchoscor ic aspiration may be used both for diagnosis and treatment When suppuration is due to a foreign body removal of the foreign body by means of the bronchoscope is frequently followed by recovery but this is not true of postpneumonic and postin fluenzal processes.

Bronchoscopy is of value in localizing the suppur ative process and ascertaining its cause. If operat on is postponed granulation tissue may be removed and pus aspirated through the bronchoscope as fre quently as necessary Bronchoscopy renders possi ble also the early diagnosis of mal gnancy of the

L M ZIMMERWAN M D

Baillet L. Me urement of the Intrapleural Pres ure in Artificial Pneumothorax (Mesute d la pres st ple rl d s le p m th x a tife l) J d m d d B d o24 c 381

The three principal causes of error in the measure ment of intrapleural pressure in artificial pneumo thorax are (1) an incorrect conception of the (h) 1 logical aspects of the phenomenon (2) mi understanding of the mor elementary laws of phys

ics (a) defective apparatus Instea I of resembling a rubber balloon with elastic walls in which the volume increases with the pres sure or inversely according to a known! w artificial preumothorax does not ha e a fi el volume and p essure because the canty wall (med astinum thorax and lung) are extensible but not elastic Large quantities of gas may be introduced with ut rais og the pressure they onl compress the lung d press the di phragm or push in the mediastinum The intrapleural pr sure i not st tic but dynamic and varies with respiration without a moment's repose Equ librium would necessit t a period of aproca which is not permissible. Therefore only a graphic registering instrum at not a manome ter will demonstrate the pres ur cond t ons accu

The water manometer d f rms and ampl fies the oscillations The intrapleural pressure is increased by the capacity of the appa atus and the I tter may be equal to or even greater than the int apl ral pres ure Such an instrument would not be satis factory for negati e pres ures Manometers that le d n the o cillations by a point r ra viscil l qui l'are also unsatisfactors

Baillet summarizes his article as follows

The volume of the artificial pneumothorax cavity varies constantly because of respiration de formities caused by the artificial pneumothorax itself (compression of the lung depres ion of the diaphragm deviation of the mediastinum) and the absorption and gaseous exchange which modify the composition of the muxture

2 Variations of volume cause continuous changes in pressure Therefore not a manometer (hich re quires static equilibrium) but a graphically regis tenne (dynamic) instrument i necessari to record the pressure at each moment's variation and to

study the intrapleural pressure 3 The graph represents almost the normal res piratory curve Inspiration covers one third and ex

piration two thirds of the period 4 A deadener placed on the tambour of the instrument reduces the oscillations to a barely per ceptible undulating line and divides the respiratory

curve into two almost equal parts which i erron 5 The measurement of intrapleural pressure by a manometer (static) is inaccurate as the volume is constantly changing

6 Measurement of the pleural pressure with a manometer deadened by a large branch pointer or viscid liquid gives a figure which is integrated peri odically in the graph but would not be expre sed by it alone

7 If it is necessary to obtain a figure the maxi mum pressure at the end of expiration 1 best de termined because (a) expiration being passive the maximum pressure is less variable than the minimum and easier to read and (b) the form of the graph shows that the last half of expiration more nearly approaches equilibrium when the errors due to the inertia of the instrument are diminished The pressure should be taken with a Marey sealed

tambour or an aneroid metallic manometer In Baillet's opinion the Kuess curses of the vari att as of intrathoracic pressures are of no scientific

1 alue In c nelusion the author states that instead of controlling artificial pneumothorax by a single ex amination of the intrathoracic pressure an \ ray examination should be made as often as possible or the method of tracings employed

WALTER C BUDGET M D

Schlaepler k I igation of the Pulmonary Artery of One Lung with and with ut Resection of the Phrenic Nerv A & S rs 19 4 x 25

By placing the lung permanently at rest ligation of one pulmonary artery with or without phreni cotomy induces fibrosis and thus permanently con

trols fort of infect in Since the principle is relati els free frem 1 sek it is a sife prelie mary tr a a c mil stage lobe t my er po umeet my The Intact lung a sim sit nist rest rather funct t and en alet subne them ha ti im toward thes I per ted up n Wh nibe t mit in th gral I dl v ton of the paral z 1 1 11 raem omit es the liver I lung me t and meter is th m ha to um t th only it valle structur ext in n of the intact lune takes the without 11 miles Water 1 St auf 31D

MISCELLANFOUS

Martin C F Applicati a of the Beauchow or In tl Diagnosi and Ir atm at of Cert in Affecti of the Cleat L. At I I tore as 1 I Ned Cr - 1 h bugh 12

The author comments of the line tumber of cases of fo eigh budges in the tro has reg reed in America as compared with the relative few r s attel in Lunge lie beles a that a ge at many

such cas sare unte poure ! The armot ms faftin bod re larely choical Reold laws than att checkthek # the larging and Landthe sound auselly also se the imt rt t f a careful tuly of the \r y

picture in all c ses presenting clinical e id preset in ign level in the Imnehus In those in bebth to ate r rams in I taite the brench score should he used in II to one

Un it was cersmi apon sea hiral en ferth Ill singe liters

When the he tory symptoms a 1 Vra 6 3 leg in leate the priseree of a foreign behin the Laurehus

When with a restichttr there are play ical ga if a n n-opaque I regn b i in th bronchu whi h cannot be d tectol lis th In . Lases of Lronchi class In the e the col

their chose per in a tell ex la tethepre ce fa for ignt is and for the a true trate not buil tr atm et

a Cases who hishow the the nal greattact culo is but n t tierr s e ftubercle tart li

(lases of to nera fue to non-of your der va of th Line 6 Trach I et conchial stemes

In th br net se pic treatment of th bro el ciati en iti the author uses al solut al phol The sets up a light erretation whi his alst it is

the wall of the cas to s cures have be n ter red but after re trest

m at the patient cems greath ler atel 31 1) S LEY L IS

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Mackenzie & The Repair of Large Abdominal Hernix by Mu cle Transplantation B t J

From the point of view of operatic e treatment as so abdominal herma man be do ide! into t o disso (t) those in which after free do section he is of soun! I asked and mu cular tissue can be suitered to do e the gap an! (1) tho c in which the def citation greatforay proximation of th margin or the tire are nound the herma will not be art the strain.

The ecolicla spresents a difficult surgical problem. When flightee has been employ if with extell in tesults in some case, but the trail of modern significations are not sawn from the use of such material. Mas we free transplants of facta lata or lact gwith strips of facts has been successful but

pe heled grafts are better

The auth r reports a cale of enormous post operative al 1 min 1 hernia in which a greater part of the wall of the left lo er qua frant of the abdom n had been de trove l Op at on as perform d unkr comtine! I mal an i nit ou or de-oregen anasth sia. After a large ma of unh althy skin halbeen r moved the m rg n of the opening ere 1 the il ntified the int times were r pl ce ! pentone I cavity was closed. The ten or facing a margin of 1 in being l ft at it lin rand l te al berders and pecial care being t k n to p e erse the rerve and va cular supply. The m: I was then s ung urward and forward t fill the opening the fiscial fringes on 1 pp ng the a ij nt bd m inal fa cia by fully an inch. Ih g ft was ha i t interrupt I utures of her homic gut The closel without ! g but a thigh wound rulber t ue ir in was pl i n the abd m nai wall A small bealized infe t n l loped b t soon clared up I is four m nth ft the operation the abil me al wall so nianith r t tat nefa pe ma ent ur
The method tesenled i f i f

abanc lipe finguin lh a ani for lige pest perative hern a belo the unit h

D Arrico A The Regres I n of Perit neal Tuber culosi Foll wing Lap rotomy Illi tological nd Bacteri logical in estigati n to t t

tidipresso imiteres ditipe in eq illipain thirth barringh illiain

In 18 4 an 1 correct leagn > 1 1 pe W li 1 Jeri malapar tom 1 na accof tuber rulo 15 of

the peritoneum. To his urprise the patient was cure! Since then this treatment has become given ally a lonted but sometimes it fail

and a mostern states that the cure 1 due to the beaterful properties of the hight and 1 von Mouholf that it is due to the action of the ur (origin). Assauer of Urso and Franqu asemb it to the hypersmia and trauma cau ed by the operation and Hildebran! to the quick drainage of the ascitic fluid. Theilhaber sa d. The relief of pressure over the mesentiency cens and the sub-equent formation of ne a theisons prevent the return of the fluid and undoubte lik have a defen ne action.

spains the tuberculous proce 8
bollowing gap minental minestigations 1 Urso
Bumn Nannotti and Bactocchi reported the
Bumn Nannotti and Bactocchi reported the
presence of fibrou changes and kir chensk vand
kiechegoloff de cribed an inflammatory reaction
du to the urgical intervention hich resulted in
the new formation of connective its use kahld in is
of the opinion that these neoformations are due to
the disappearance of the bacill Mazzoni is
covered atomi and within the tubercles an infliration of leucocytes which liter became supersi led
1), fibrious it sue Gatti di not find any limphoid
c lis but di covered a type of epithelial cell in a
state of dee neration

D tringo hal the opportunity to study the hi tological and bacteriological changes occurring in a c e which was operated upon in 1921 and re oper

ated upon one year later for eventration

The pathological find ngs made at the fist opertion were thickening of the partial and vi cerul pentonium and the presence of a large number of multar tuberfees. The mitro cope revealed numer ou tulercles in different stages of devel piment mot of them sho ingg in cells ard some of them with centers of caseous and coagulation neer a Tuberfee hacility were present in the pention um in fluid. It the second operation of from the keeping of the pention cum was found but no a the in or a citic fluid and on mero copic examination in peritonium appered! In the than formed! It showed eruber int fluous ti sue and tuberfees in the fluowing ti ur pha es

1 Tubercles circled 1 a zone of d lated capillanes and infilited with hermatids. The center was occupied be living heater 1 have cell and for blats. In this period the minel ment of the tube cleavary in happen 1 1 in t take the tain will.

2 Tuber les houing neer ro (c seous deg ner ati n) 2 few giant c !! an ! hæmiti !s

5 Tubercles n which th 1 mpho ranul mat us

zen had been regl ced by co nects to ue which

had invaded and fe troved the epithelial and giant

4 Tubered with had let their typical form and het become intergrated by the rous to see In the I set period the let this press normal. In the sec not then need alone seen and are in a firm at or granular tegen ration. In the third state a few re still present, but in the last stage it y have a miletely it appeared.

D true trans the i flowing c nelusion to Ti te re form i tubercul sis of the peri

t III to re form I tubercul sis of the peritoneum in which laparotomy fail to effect a curbecau th number of their ria is to barge

The pering of the all im n produces intened historica and born r hage fell well ty necros soft to tubercles in it in on of first to the tubercles in the number of the table release.

t During he in utton pinke i the tet reless the full do funity a vehing that when the neer is an i fatrons proceed begin they assume the so-called granular form in which they remain drin not.

4 The fibros infitration results in definite.

healing with complete disappear neeof the legis of the near the protony management that I protony management the culous pentions with very number of stubercles.

Higgin TT nd II 3d F 1 Mesenteric Cyst : With a R p rt of Two Cases Bull S 1 19 4

On of the author pat ints was a box 5 years of age. Drain go of the exit which will virilage was followed by viry. To other was a woman 45 ye is 11 who test in ticel thi tumor eighteen y ara pre vivil. In this case the yet was success fulls rem vil.

These c ats. The th. m. j. nt. were probable of mill round (w. fl. an) it mains I sut the theory that a some true, mescalistic cyals arise, prim rily as divertical of the alim nativitate must be accepted. The auth ris agree with Cun or that m. m. if the ill defined varieties of retri persion at a line mescalistic cysts should be silled in persion at cyals and mescalistic cysts should be silled in persion at cyals.

GASTRO INTESTINAL TRACT

Iyon J II Linitis Platica S g Gym & Oht

The author studied thrity-right cases observed at the Mayo Clint in which the diagno is of finitis platted or I with robuil stormed was made an operation. The wall of thest in the were thickened and hard and hid! I their clusticity. In the wind is cases speciments were obtained as the part of the twenty five microscope a study. I untern of the twenty five microscope a study. I untern of the twenty five microscope a study is unterned to the twenty five microscope as the studies of the five microscope and the studies of the five microscope and the studies and the studies and the studies and the studies and the studies and the studies and the studies and the studies and the studies and the studies and the studies of the studies and the studies and the studies and the studies of the studies and the studies and the studies of the studies and the studies a

wall one as ulcer and marked thickening of the subtruces and invisions with marked but for infiltration and fibro s and one as a set of the shallow ulcer and extress of boost one of a through this series. The six patients whose of a tion was believed in metalligant find so they after operation. Further microscopic study of the opersitive securities of collections of the studies of the structure of the studies of the stud

In the remaining to eases the operative during was I nittle pastice but mero copic eases, the recent I cleans of the than small cell carter as. The microscope of goods were spphiles and pasticiouslice sample nuclear hypertro his amount of the pasticiouslice sample nuclear hypertro his amount of the pasticiouslice sample nuclear hypertro his amount of the pasticiouslice sample nuclear hypertro his amount of the pasticiouslice sample nuclear hypertro his amount of the pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticiouslice sample nuclear hypertro his pasticious historios de la pasticiona historios de la pasticiona del la pasticiona de la pasticiona

Vatious lessons may produce almost kentrally the same gross picture such for gampe at the truckmed, gruth of stant beginded by Bird to This probable olds of his fraction of the stant of whether limits pile tract is being no malignation and accounts also for the variation in the results is surreal procedures.

Asilma T: P ti donglos-Anatomical Studes on the Ca tripl of the Uter Stom cha d Som Observations on the Pathonenest and Pathological Anatomy of Gal is Ul vr (P th s sh a t she tode use d tatta ba Ti umagen met te genß merks grang Pagrosse und path kynsk Anatom edes Miget er him net 1 A PA CA 1014 CL 12

The atticle is based on fifty recettor specimes at the Niet Chaick fort to of which we obtained to I filter the property of the Nieth Research of the Nieth Research of the Nieth Research of the Nieth Research of the Specimens ranged from 6 to 3 see That most of the specimens ranged from 6 to 3 see That most of the Nieth Research

records the are list was not at en. Cs tree the nees such as hyperplasus rounded and plasma e II a litration numerous himph if it clees metapla, a of integral neighblum attroph-selected etc were found in the late profit soft is stomach particul fir in the region. If the lever curvature in all cases but were present in the copuration of the confit of the late of th

are not not the contract of the presence of numerous high pland 1 high pland 1 high part folialist ero on in care nome gastrilis these are for need the theory in timerea dhydr choire and product 1 n in siter is due to hypertural to a product 1 n in siter is due to hypertural to a product 1 n in siter is due to hypertural to a product of the product

Among the findings differentiating carcinoma rastritis from ulcer gastritis are the precarcinoma tous cell forms-Hauser s new cell type Metaplasia of inte tinal epithelium is found chiefly in the most changed regions of the stomach but not in the regeneration zone of the ulcer scar Therefore this metaplasia is to be regarded as a sign of gastritic degeneration not as a regeneration product

Many factors indicate that ulcer gastritis is a numary condition and an etiological factor in the development of ulcer. It is apparent however that ulcer and ulcer gastritis may establish a vicious circle. With the exception of one case, the gastritic changes in the specimens studied had caused irrepa able changes in the mucous membrane. All of these finds as taken together indicate that the best treatment is exclusion of the most severely affected portion of the stomach by one of the Billroth proce dures Transverse resection is comparatively un sat sfactory and gastro enterostomy least satisfac HELLER (Z)

Paterson H J Wilcox Sir W Burgess A H and Others Discussion on the Treatment of Se ere Gastric and Duodenal Hamorrhage PcRySc Wd Lod 194 1 Set Sug Med The p & Pham I t

PATERSON Hamorrhages from gastric and duodenal ulcers may be classified in two distinct groups viz acute hæmorrhages and chronic or recurrent hæmorrhages

In acute harmatemesis, the collapse induced by the loss of blood is favo able for the arrest of the harmorrhage but unfavorable for surgical inter vention. Usually the bleeding can be arrested by medical treatment. If medical treatment fails

su gical interfe ence is not apt to be of aid Most clinicians are agr ed that the mortality from hamorrhage in cases of gastric and duodenal ulcer treated medically is under 5 per cent. In the tables comp led by Paterson it is 3 8 per cent Lind berg tabulated eighty three c ses operated upon immediately in which there were thirty deaths a mortality of 36 per cent Later statistics from London hospital shot ed a mortality rate of 36 8

per cent in cases treated by operation The important points in the medical treatment

are the following Rest in bed. The patient should be kept absolutely still no movement of e n the arms or

legs being permitted 2 Tripler's injections of hot water by rectum and of saline solution at a temperature of from 120

to 139 degrees F

3 The application of an ice pack to the abdomen 4 Dietary treatment Nothi g should be given by mouth for at least four days At the end of that t me feeding may be begun with teaspoonful of ked milk and egg and this amount gradually increased A milk diet should be given for two month Thereafter some dulut d b I essence may be added to the d ctary

Small doses of morphine

The subcutaneous daily injection of a 10 per cent solution of sterile gelatin in doses of 40 c cm

7 If somiting or hamatemesis continue very centle layage of the stomach with warm water followed by a dose of crystalline bismuth subnitrate given through a tube

When the patient has recovered from the result me anamia operation should be performed to pre vent recurrence. The interval between the hamor rhage and operation should be at least three months

In cases of chronic or recurrent harmorrhage operation should usually be deferred for two or three months after the last hamorrhage according to the patient's condition and medical treatment should be given in the meantime. An important detail in the medical treatment of chronic or recurring hemorrhage pending operation is regular gastric lavage

Of the operative measures gastroiciunostomy is the simplest and safest procedure and in the great majority of cases may be relied upon to prevent recurrence of the hamorrhage. Hamorrhage is not an indication for resection of the stomach. If more than gastrojejijnostomy is considered advisable infolding of the ulcer or its cauterization by the Baltour method a safer than resection and equally eff cactous

Careful and prolonged medical treatment after operation is as important as medical treatment before operation

With the combination of medical treatment followed by gastrojejunostomy the mortality rate from hæmorrhage in gastric or duodenal ulcers should not exceed 4 per cent and freedom from recurrence may be expected in oo per cent of the cases

Frequently the visest and only safe course is maction but this is always difficult. Anyone can try to do something but it is the strong man who refuses to be tempted into taking risks which he believes can serve no useful purpose

WILLCOX Gastric and duodenal hamorrhages are due to so many different causes that no routine method of treatment can be laid down Though gastric and duodenal ulceration are responsible for many of the severe cases it would be unsafe to assume that the treatment to be adopted in a severe case of hæmorrhage should be that for a bleeding sentic ulcer Each case must be treated according Some of the most severe cases of to its etiology gastric hæmorrhage have been due to such condi tions as cirrhosi of the liver splenic anæmia gastric erosions gastro taxis and chronic toxemia. In these the treatment usually given for bleeding septic ulcer was often contra indicated

It is generally agreed that nothing should be gi en by mouth in the first two or three days follow ing the hamorrhage. The stomach is probably full of blood more or less partially digested and until this is evacuated it is useless to attempt giving either food or drugs by mouth About 15 oz of normal sal ne solution to which 4 per cent glucose has been If ish all be a limit tered is re turn every in hour Willcox for bits the value of art bing tree

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who of collinstant for collinstant to certain the certain management to the collinstant to certain collinstant management for the collinstant management for

In the ca es subjected to exploratory laparotomy the average duration of the disea e previous to the patient's admi ion to the ho pital was e timated at seven and one half months. The rea ons for monerability were complications such a metas tace in the hamph node at the hilum of the liver in the nancreas in the transverse colon and at the root of the me entery. Of the fifty to patients subjected to explorator laparotoms forts nine d I to were alive six months after the operation and there I were al ve after about three and one half months Three patients are still alive. In one of these the operative findings ere an ulcer on the upper third of the le er curvature which showed malignant de eneration and had perfo ated into the pancrea and formed metasta es in the gastr colic beament and peritoneum Rountgenograph after four years revealed a healthy stoma h In another case there was an extensi e hard carcinoma at the I sser curvature with meta tases in the r troperi toneal lymph nod After six an I one half years the pat ent 1 free from symptom

Of the 104 gastro enterostomes eight ere of the po teror and t entr four er of the anterior type. The po toperative mortal to was o pir cent. The striking feature in some cases—as th fa t that pulmonary and hepatic metastic est elopped imme

datch after the operation
Of the resctions twenty nine wer of the Bill oth
I type and r 8 of the Billroth II type In eventy
lour of these cases there had been symptoms for
thirty years. The operative mortality vary oper
cent. Most of the patients die if m peritonitis.

Of the eighty five surviv ng patient i form i hom chemite information we so batanable 1 mit is the ce ere still alie and these vere examine climi allie at one region gicalli. Of the pati nis with carcinomat us steno is of the ploru is per cent is living of those 1 th non-tenosing ca comona version with the company of the property of the patients of the property of the patients of the property of the patients of the property of the patients of

Stein G and Fried E In et ation of Catic and P ner atic Function After Et nish Resection of the Stomech (Utr h ub Mgnud Pakefkt 1 gedhm Mgnud Pakefkt 1 gedhm Mgnekt) II N N h fe 93 x x 7 75

The authors report fifty 1ght ne tig 1 ns on the ty-eight patients 1 nn ie case | en of uic or of ca choma and one of peng strill) the exerctory or dution of the stoma hand do in maker touled befoe and at va ous prid aftr operation Se enteen cases (fourteen of ull r and vice of cancer) ce studied only if operation a sent cases the studies were incompiled to the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the studies were incompiled to the case of the case of the studies were incompiled to the case of the

persons with a normal stomach and infestines were

By means of a duodenal sound gastine junce wy obtained from the fasting or unstimulated stomach. The sound was then advanced into the duodenum to obtain duodenal junce. Wher this a test meal vas gi en sometime immediately and sometimes tentj four hours later. The investigations with the duoden I sound view carried out so gently that it was po sible to begin them as early as the third week after operation. Roentgen and hi tological examinations, view also made.

Acidity as determined by thration. The amount of pepsan was acc tuned by the casen test that of rennia by means of fresh milk obtained all as a from the same cow and with and a vishout the add ition of calcium chloride that of trypsin in the duodenal jucce by the casein let and that of distasse by means of a 5 p r cent strick solution by Wohlge muths, method.

In the five control cases the quantity of free hyd ochlone act I and the total actidity varied widely in juice from the fast ng stomach but in the test breakfast showed only slight arrations. The ratio of pep in to rennin was not constant.

In the examinations mad oon after operation the stomach as found to contain a surpringly large amount of green h material of the const tency, of persoup and with the strong oldor of sour vomitus to encourage the surprise of the constraint of the

The secr tory conditions in the stomach undergo a gradual change in the first two months after operation and do not become stable until the end of that time. The early cases (within the first two months) showed a lecrease in a dity but entire at sence of rice hadrochlone and in the fasting stomach was found in only six cases. In the five others it was found in only six cases. In the five others it was found in only six cases. In the five others it was found in only six cases and the certain of the other hand free hadrochlo it and the state of the control of the state of the control of the state of the control of the state

The s me finding vert made with regar to the ferments. In the early case their vas often as much p p in as before operation but the late cases he dless and fit quenth none at all. The findings with regard to remnt vere similar but not entirely parallel. Examination of the duodend junce recall no injury to the pancreathe decision from deficiency of hydr chloric act. On the contrary it vas for distinct the storach the pancreas functioned to the the pancreas functioned to the contrary of the storach the pancreas functioned to the contrary of the pancreas functioned that norm lik and it many cases its secretion as particulal by rich in fermen; cases its secretion.

is it i recogn z d that the duod nal sound is an entirely inadequate and unphysiological stimulant

of the pancreas the authors gave a test meal with the sound in position but the investigations carned on in this manner have not yet proceeded far enough to warrant conclusions The authors agree with Schoppe and Deloch that hypo-acidity and anacidity of the stomach set up compensatory hypersecretion and hyperchylia A short time after operation the hydrochloric acid content of the stomach is consider ably decreased while the pensin and rennin contents are relatively high particularly after a test meal Conditions are satisfactory for pepsin activity but for rennin activity they must be improved. To induce rennin activity the authors gi eiscem of a 10 per cent solution of calcium chloride in / liter of milk The milk becomes curdled within a short time even in the resected stomach

The theory that gastice secretion is regulated by refice si from the anitum is supported by the fact that increased activity of the junc and abundant secretion of fluid are set up by it mulation of the centripetal nerves by operative trauma and healing the properties of the properties of the secretions become dutted and less effective. In the cases studied the pancreatic junce show of an increase in strength after resection of the stomach. On no occas on was paracreatic function of his do be impured organs peripherent to the point of section was not determined.

Inoue II The Effect of Drugs on the Circular and Longitudinal Musculature in On and the Same Specimen of the Excised Small Intestine of the Rabb t (Uberd W k g d Pharm k uf Ring u d L c g m k lat d s ges h t te n kanne h d dams ber u d d mal b n Praepa te) Act sh kx med mp k to gat v size Act sh kx med mp k to gat v size h

In a previous report the author described his method by hich contractions of the incrudiar and longitudinal muscle layers of one and the same specimen of the small bonel of the dog could be required graphically at the same discounting the same of

action has not been suitable to the product of the control of the

mobility and tonus of the small bowel. The circular muscle is always stimulated and by its contraction may cause a passive lengthening of the weaker longitudinal fibers.

The effects of acouste are difficult to evaluate as this drug apparently exerts a double action. Through the sympathetic nerve endings a depress n of the longitudinal muscle is produced but the direct action of aconite causes a stimulation of the circular muscle fibers Accotine acts simultaneously on both muscle layers producing an initial p ralys s foll ed by stimulation Apparently it stimulates both sympathetic and parasympathetic motor endings Atropine also affects both muscle layers simultane ously causing an immediate paralysis Sometimes this paralysis is followed by a stimulation particulation larly if a small dose of atropine was applied. The d p essing action occurs apparently through the vagus fibers and the Auerbach plexus and the timu lative action through the Auerbach plexus or the muscle stself L M ZIMMERMANN M D

Hughson W and Scarff J E The Influence of Intra nous Sodium Chloride on Intestin l Absorption and Peristalsi B II J h z II ph Ilosh B lt q 4 v 107

In cl n cal and experimental ca es of intestinal obstruction Haden and Orr noted a straking fall in the blood chlorides. They were able to alleviate the toxic symptoms markedly by replacing the chlorides by the administration of hypertonic solutions of sodium chloride by hypodermoclysis or intraven us innection.

It appeared to the authors that the use of sodium chloride in cases of high intestinal obstruction i add tion to the replacement of the chlorides n! the reduction of the toxerma might have a bene ficial effect on the obstructed loop Observations were made on twenty cats The results were very umif rm A loop of small intestine just belo the level of the bile ducts 18 cm in length was divided at its upper and low r ends and co nected with a reservoir filled with warm water. A 30 per cent hyperton c salt solution was then injected intrave ously very slowly. As soon as the i jection was begun the entire intestinal tract including the isolated loop showed marked peristaltic activity This persisted throughout the entire period of observation in some experiments as long as fifty five minutes

In one experiment normal salt solution prod the same effect but with less inten it; and only after a latent period. Destrose in 25 per cent solution was also effective after a latent period. Distilled water and Locke's solution had no effect whatever. Clinical application if the method in two cases.

had striking results immediate and prologed peristalsis following the injection of the salt solution. The auth is state that hypert in code of unchlonder solution can be given safely by the intra en us to te in sit nights of 15 to 30 per cent. Its effect has been demonstrated previously by the reduction of the cerebro pinal fluid pressure. The injection must be made slowly not faster than at the rate of seem perminute TORN W NEZEM M D

Delatentère H A Case of Intestinal Occlusion Through the Foramen of Winslow (C ntribu ti àl etude de l'cclu ion ntest nale par l'hiatus de Il low) B il et m m Soc nat dech 10 1 1 552

In 1006 Jeanbrau and Riche collected eighteen cases of intestinal occlusion through the foramen of Winslow Ulmann recently reported another In ten of the thirty-one cases the condition was found at autopsy and in the twenty-one others at oper ation It i probable that the type of occlusion occurs more frequently than is generally believed and that it would be discovered oftener if operation ere more frequently performed at the first signs of intestinal occlusion

Delageniere reports a case which he operated upon in foro The pre operati e diagnosi was

high occlus on. The strangulation occurred 60 cm from the duodenum and at the end of an hour caused comiting There was entire obstruction of stools and flatus. Examination revealed a globular tume faction in the epigastrium slightly to the right of the median line

Of the thirty-one reported cases twenty one were operated upo 1 and in these there were thirteen deaths and eight recoveries

Recovery resulted in none of the cases in which an artificial anus was formed. Other survical procedures such as simple reduction by traction reduction after progressi e d latation of the fora men with the finger and retrograde taxis after open ng of the mesocolon have been successful

Delageniere opened the poster or omental cavity widely and separated the colon from the omentum He regards this a the method of choice when reduction cannot be obtained by simple traction on the hermated loops. It permits complete and rapid exploration of the ca ity and of the loop and in case the loop 1 greatly distended allows its evacuation by puncture or temporary enterostoms in addition it facilitates t action fr m the other s de of the ob truction and exp es the strangulating agent to view so that the r ducti n can be effect d und r the most favorable co cumstances

In order to prevent the recurren e of str ngula tior in the foramen of W nsl w n abdominal olo pexy of the hepatic flexu e hould be done and the reflected omentum fix d to th tran erse colon

In cases like the author s in wh h the occlusion is near the duodenum the complications arising from intestinal toxem a arc e p fally to be fea ed Although the author's patient m de a good perati e recovers he succumbed eight day later to pn mon a due undoubtedly t ntestinal toxemi avod this complication t ne ess ry to la age the stomach to admini t r a mild I urgat dails and to k ep the mouth a d te th in good cond tion Del g m re has found that s ne spe ial attention has been pa d to these points in his cases of gastro-

intestinal operations postoperative pneumonia which used to be attributed to chloroform or ether has almost disappeared II I BRENNAN

Bedarida N V A Duodenal Loop Excluded by Unilateral Resection Anatomopathological Experimental Research (An a duod nale eschi per se ione u late al ricer he sp r me tali a atomo-patol gr he) P ! ! Rome 1024 vil sex chir 12

The author performed gastric juxtapyloric and duodenal resections in dogs previously subjected to gastro enterostomy Some were killed two months later and others at the end of about a year. One series con isted of dogs vith a posterior gastro enterostomy and an antepylonic gastric resection which left the pyloric sphincter intact and in situ A second series comprised dogs subjected to uni lateral exclusion of the duodenum and dos pward resection of the pylorus with care to prevent injury to the nerves or the coronary gastric system

In the experiments of short duration (eighteen days) both the distal and proximal tracts of the duodenum presented signs of involution and in flammation

In experiments of longer duration (from one to two months) there was a marked d fference between the segments distal and proximal to the neostorns In the fi st the mucosa shored degenerative and inflammatory phenomena capable of bringing about its partial or total destruction. In the econd, most of the glandular tubult were maintained intact and in spite of vacuolation and fatty degeneration the cells were protoplasmic the mu cultus was aplastic and thickened and the lamina submucosa showed beginning fibrosis

In the experiments of more than a year s duration the histological pictures were more normal. In the distal segment glandular atrophy and active cellular systems were found The proximal segment showed regeneration with adaptation to its new position

and biological conditions

The conditions in the unilaterally exclud d duo den I loop were therefore (1) stasts of digested reflux material and partial retention of se retions () an acute catarrhal process (3) mucus and toxic secretions and (4) absorption of the contents of the These explain some of the g neral post operative disturbances occurring in patients subjected to resection of the pylorus or duodenum The syndrome includes general depression a weak pulse hypotension hiccough intestinal stasis and fever Some of these symptoms may be due to the absorption of toxins As the excluded loop returns t normal the gradually disappear

II A BRENNEY

Niles W L Congenit 1 Fixation of the Duodenum by Hepatoduodenal VI mbranes(H rris Bands) Med Cin \ Am 19 4 \

hiles reports four cases of congenital fixation of the duodenum by hepatoduodenal membranes

This con lite a a frequent cause of in brestion and is often overlooked by both roentgenologists and surgeons Careful fluoroscop e examination estab lishes the dagnosis The \ran re rals a f bhook type of stomach with protru ion of the pyloric en t of the greater curvature. The pyloru is more to the right and higher than normal often it is at the livel of the first or second lumbar vertebra extend can u walls fills slowly because of pasm and is often larger than normal. I requently the first portion of luo lenum is I lated. The hepatic flexure of the two lenum-th juncture I ctneen the econ I an I third porti ns-is v ry high Ising close to the liver It has no lateral mobility and sho s no up and down movement except with re piration There I al ays some obstruction at the point of f vation but it is I ght compare I with the resulting sympton's The stomach u ually empt es on time Castric lilatation is rare. The peristaltic tone is good and hypermotility is noted. The condition is more common in I males than males and occurs most frequently in the thirl a cad

If symptoms have but prent for many years the peture is that of neuristher a the patient complaining of fatige nervousne palpit tion and tachycarlia frequently of leadache and occasion

all of migruine insomins an I mental degres 1. From one hi for to hu was after ment the ex a sensition of eight fullnes of open on in the equivariant which usually a reheved by leicht g. There is no hi trees when the st much i empty. In most treat the continuous access mily in omitting heartful art und probes. There is little loss proper to the continuous access mily in omitting heartful art und probes. There is little loss proper to the continuous access mily in omitting heartful art proper to the continuous access mily in the continuous access mily in the continuous access mily in the continuous access mily in the continuous access mily interest mily interest mily i

Of cration gives very satisfating estits. The pain is releved dig tion become smuch better and the gegeral health including the nery state improve. Mid lie aggineu asthe iest pinlity I an [self low regan p. 6] eth alth.

In most cares the duoten I fratt in . I late end the results of m decal tr timent are mot sail factors. Non operative free firment come is in g. i.g. non-irritation, small re i.l. e.l. it in mill q and an all and plasmodies with as bell d ma. I lum hal and the most complete the sail and plasmodies with as bell d ma. I lum hal lum hal and hat most tapplication is the abd men ha electrough the first plasmodies when the sail and the most application is the better than the sail and the sail and first plasmodies the careful of the careful for plasmodies and the careful for the sail for the part with the sail for the part of the sail for the part of the sail for the

W instein S Roentg n Examinati n I the De cending Po tho of the Duodenum 12 Roentg u i hu g d P rs des d d oden) Fort th d R ig it 11 9 4

In a number of ca es the 1 s nding p rtion of the duodenum shows i th fl o copi picture 2 bend to the right. The author reports five cases in which the finding was explained by the disco ery of binds or adhes one at that side. In four control cases shout a lateral hat side in four control cases shout a lateral hat side in the discovery picture (three cases of cholelithas) and one case of hypertroph cerrho is of the livery no others on were found in the gul bladder of subordar leg on at overation.

operation and may be the result of an extra combrack inflammatory process (usualls, ch. 1 eys toy or a non inflammatory anomaly of lexelopment. In the latter case the link; i.v. thout clinical inportance. T determine the pr-sence of a lateral kink pressure: in mide on the stomator while the abdomen is dra in in. The contrast emulsion must be the nettrans be thing d with in the all mentary canal by it may be thing d with in the all mentary canal for prongrams of in 1 show the kink. If the processing of from two ultitations in the activity. Having (in from two ultitations in the activity in the processing of the contrant of the contraction of

Melchlor E The Su gleal Pathol gy of the D odenum M gaduodenum (R is ege us h gs h D | 1 jth l gi Da. Mg d od um) 4 k f k l n Ck = 94 cs is

Acute Iditation of the duod num may occur thout in the alle mechanical ob truction of the lumen. Ca es of the type I diopathi dilatation have been I protect by a e. in le able number of surgeons also se e. al cases I du denal dilatation of surgeons also se e. al cases I du denal dilatation perhips congential which is as occuted the inflamment Jy dieses of the puneress. Only I for recent reports die cus these delatation sas a text.

Th authorize orts three cases characterised on the by absence of an apparent me han call cause. The luodenum as a affected in its streety. By the right she condition has a felled d) it too caused by the lower position of the nice is a consensational mail franction.

A oring to Grigoric the 'umptoms' finesa duodenum ar titack of omning atticks of examine the night sade of the whole men is of the business and frequently and the sade of the k-ray. In the authors op nin the sand mei in 1 a way so the authors op nin the sand mei in 1 a way so the control of the lineal symptoms. In seem to a in Pat ticularly the oftel is the internet in that of the distribution of the internet may be a supported in the most first of the internet majoried from the first of the internet majoried from the control of the control of the most first of the internet majoried from the control of the control

Ri by Si II M. A N te on Ext rnaf D od nal Fistula with a Reco d f S m. Unpubli h d Ca. B i J Si g 9 4 43

In external fit la is a mu h drend d sequ. I to do ease o nyury of the dodenum. The may nity of do do nail fit la are the dect esult of op ration for I e of the du de um right kid e o g ll bil dder and b le ducts.

The accepted to high that a dod all fitula an exciptionally gravile on a usually correct but

it i surpri ing to note how many such fi tulæ have healed up either under imple local treatment or as the re ult of some type of operation

The treatment of a duodenal fit tula depend upon the amount and character of the deharge and its effect upon the general condition. Operative trat ment should not be considered at first unless urgent

s motom demand it

Local treatment consists in protecting the skin out on of the fluid has been employed with good results General treatment consists in withholding full by mouth as far as polible and the injuid.

of sal ne and glucose by rectum

In severe ca is some form of operation 1 1m

m severe (a es some form or operation i man per five. The choice rests bet een (i) ga tro ent rostom; with occlu ion of the pylorus (2) journostom; (3) direct suture of the opening in the dool num combined with (i) or (2) and (4) direct ultre alone.

(attro-entero from with scelu ton of the p Jorus with ris up a stell be Berg. This operation is ut off the ficharge of the gas true contents into the discharge of the gas true contents into the discharge of the gas true to the stellar which act upon the flow of bell and the p necessic section. But the great and artisg that it thin a few hours the stellar than a few hours and the section of the

The operation of jejuno tom's an allen as comethod of introducing fluid has much in its fir or litan be performed rapidly under local anished and if improved method of though a e u ed the danger of a permanent jejunal fit tall negligible.

The results of treatment by direct sutule lone he not been encouraging. Mave achie is a bit and its success in one case but the pritton whom the minimarks after the direct and probably before the defined an another is all probably before the defined effect of the tripute full on the rise was established in all other reported cales the sutules who quit direct ways.

The Annal Mark Mark Mark and Mark Mark Mark encourage and the support of

Lehman E P and Gib on II \ Ob ervation in a Case of J junal F tula J 1m M 1 19 4 1 x 9 8

The authors report the use of a ma saf red a crush ng injure f th j ju um T o te t of intestine were resecte ! an ! th Ir i of th lovel brought out of th 11 m n Th ob ra to as were mal with g it it 1 th d ction of perital i acros th g i n th be Of test importanc in the ob 32 mil was the time interval between the ppea an of mit r activity in the upper a dl w r loof 11 z ha att mpted to explain mo t peritalt at it b the so-call I gradient th or 1 lr tblit a d act vity minimizing hat r nt lc troit factors the e may be In th a th se th re was eve ence that the sum lu in the II tam l'acros an n tom al a lih tol gical kom the bolto th lower loci u igpe tal to the l we loop although n st mul whit r was applied to the latter loop. The can be explained only by a central control mechani m by which term i meant a mechanism co-ordinating the activity of separate segments of the bow! No nervous impulse could have been train m tred with out a time interval.

Another point of great interest in the case studied at the effect of sodium chlond can secretion and pen tal is. The marked activity of both under the influence of a weak sale is solution given by mouth was strik ig. Ab ence of a marked effect everted be acid or alkali was noted. On one occasion when the salt was administered while the patient wis an cated there was a prompt flow of secretion with color for extending the color of the salt was administered while the patient was not cated there was a prompt flow of secretion with color for extellibility of the color of the cated with the color of the cated was not seen to the color of the cated with a tendent to the versers pen tal.

HOWARD I MCKNIGHT MD

Lee W. E. and Downs T. McK. The Treatment of Acute M. chanical Intestinal Obstruction by High Temporary Jejuno tomy 1. Su. g. 022 kr. 45

The death rate of acute intestinal obstruction in high The author seports a mortality of 7, per cent in tile cases with amortality of 50, per cent in tile cases with amortality of 60, per cent The records of 5t Thomas Ho pital Lon Ion for the Lienty vector from 1850 to 1907 show a total of 341 cases with 310 death a mortality of 58 per cent Lenor mant report a mortality of 6 per cent in fort, three cases In 604 cale reviewed by Cu llaume the motality was 1, 5 per cent in those in which cutter outomy alone wa done 48 2 per cent in those which cate the cottom and 12 for event in the can which the or which cases are the control of the control of the cottom and 12 for event in the can which could be a followed to the obstruction and cate of the otom.

Tayl r clas ified cases of acute intestinal obstruction into three g oups on the basi of the duration of the symitoms

t Cas s in which the symptoms have been preent less than t ents four hours and the general condition; fa orable In the relef of obstruction i all that i required that is required.

ent for from on to three or four days. In thes the g neral con litton is u tall far but there ma the sterogrammer or miting. The patient will usually stand r lef of the olstruction but jejuno tom boul 1 al ays bed n saa primary proce lu e

(a es in thich the mechanical obstruction h s bein present for longer thin four days and the gen r l cond to n i usually poor. In these cases primary operative interference should be limit d to a r p d h gh genuostom.

Taylor also a lix ed lanage of the intestire with sodium b carbonate through the jejunostomy tube. The auth is ace pt his class fication and recomm additions as to operation but do not rigal to distinct intestinal lanage as necessary. There is clusions are as filosis.

t The cause of death in acute mechanical in testinal obstruction is toxxmix from the al sorptic

of toxy intestinal contents

2. The in lications for the surgical is atment of acute mechanical lost untal obstruct on are in decita ing order of this importance. (i) elimination of the touse material from the bada as rapilly as possible. (a) relef of the low 1 from the 1 tenton with characteristic (i) restoration of the lumino of the intestines and reset 11 hancet of the lumino of the intestines and reset 11 hancet of the freed current.

3 Of the various methods suggested to meet three in lications the n et satisfa tory is a high 1 jun stomy performed with a rult r tube after the 1 ching he of a Wattel gastroit my

4 Ibis procedure should be used alon or in combinition with oth procedures in all cases of a site mechanical intestinal obstruction of over twerty four hours duration which are subjected to persian.

x The stomal it on the with irawal of the rul ber tube ches promptly when the nel for it has justil

6 III methol when used as a temporary pelient will son times allow an apparently hopel is case to improve to such an extent that more ratical procedures may be attempt. I later when there will be some prospect of succ.

St LLY J S rote M D

Levi DS Syphilis of the Intertine II d C

Syphis of the intestinal tract tracks certain regions more from the tian others. In scheme to of it was phagus and small intesting as rar while refulles and ar relatively common

The infect on my who congential it acquired in the firmer thiles it was usually in the ilcum while in the latter thicklood and rectum the more frequently into led. MacCallum however regists an quired tertiary lesses in the upper ilcum and a junum. Tubercul sist is usually found in the lower

ileum an Leacum

The secondary rab m w affect the intestinal muc a similation of by the manifest tim in the mouth and kin. It is just just make the manifest tim in the mouth and kin. It is just just make a mouth and the manifest make it is just a mouth and that it is which rayout to tree timest quickly find the minest and it is build seen to meet a those of the testinary stage hich appear as in clearations on the minest and it is builded by the minest and it is builded by the minest and it is sufficient to the first manifest make to feel manifest make to feel manifest make to feel manifest make to the minest make the minest make the minest make to feel make to feel make to feel make to feel make to feel make to feel make to feel make to feel make to feel make the manifest make the minest make the manifest make

Tuberculos s may e sily b confu ed with a ph ili in both the ulcer tiv and elerotic stages ev n

on histologic examination

The sympt ms of let cententis vary with the typ and location of the lesse. In the early ulcrative stage there will be signs of chron cententis pain larthura altern ting with cot stipation at the presence of flood and if us in the stools. In the

sclerotic and the obstructive stages there will be signs of obstruct on an if if he less on is in the lower book a malignant tumor of the rectum may suggested by the loop stools and telemus. Lettora it in is in tunknown.

In asphils of the rectume which is reach me of monoin the female the in the mal the thin logs of processes pre exam and n ar usually charact risks. The triany femous are the most in written that trainy femous are the most in written the logs of the training femous the logs of the strength of the stren

The latium enema picture ho ever is most to fixed there being a long smill chain it inspreading graduilly into the unliked it beyonter hed colon above. This in sharp contribute in the local act

Irregulants of the filling defict of carcin ma
The large smooth his ris not tin ler and has no c
of the stony har lines which characterizes the orgin

n Hed with small met sta s.

The author rep th two cases one of s.mil. of the rectum with guinnia format on and structure and the other a case of probable leuter obstruction of the small intest in complicated by tubered to the lungs with efficies. If no most g. sind again each care a testown in illustrations.

Casar v. F. A. p. w. 340.

Mills R W. Roentgen Ray E ld nee f Col nic Second ry (72 ges. 4m J Roentg of 921 f

Soper II W TI Restoration of Colonic F no tion in J Roy (1 and 19 4 2 5)

Muss claims that in the form and longing had eye gals in the contractural rescuess the shell man have rain in give secondary evil to common primary could for that would otherwise escape recognition. This is the oil in a neturn life he stat a state before the contagen logist call agence the absorbed in his most know the surmary of the contagen logist call agence the absorbed in the most know the surmary of the contagen logist contact tail return moult to a general rain to to the bod! I habitut Lery state of mod the colon by determining the absorbed in good and the first proprior and distincts a first off common and distincts a first contagen the colon by the first properties of the first proper

ian acquired malpositio simile rist re lator pelar de iation any timir out die of the tim niary tract any ma k d in g i int fao organ or a N ou derable erudate will infle ce of in topography. Cert in and vilual static a lo seou structural per lamitie m y cupit i abnormal ti's of functio will chi in turn ause el gra in form M py le i is swith a and outs le [the alment ry tract and the products of lesions simulate certain secondary physiological colonic reactions and give mentgen ray evidence of their occurrence. Thus from the resulting atypical hau tration and con tractures local colonic diverticulosis may be antici

nated when it is not immediately apparent It is possible that certain abnormalities in colonic function may in turn result in secondary vi ual thanges in form. An example of this is the patulous rectosigmoid which is considered the result of divulsion caused by facal retention in the rectum with secondary dilatation of the contiguous colon A redundant colon may owe its origin to a similar condition with stretching of the longitudinal bands Colonic motil ty in common vith general al mentary motility is increased in rate by the presence of a space occupying tumor outside of the alimentary tract Possibly this is due to secondary stimulation of peristal is plus an increase in intra colonic tension

knowledge regarding the normal physiology of al mentary motility may sometimes be gained from its pervers on in certain pathologic conditions. For instance the fact that a carcinoma of the colon may be manifested by abnormalities in contractural and haustral outlines far distant from it both proximally and astonishingly far distal suggests that such atypical contractures represent a dis turbed motor gradient-balked efforts at no mal contraction and haustration

The article is illustrated with numerous roent genograms

Sorer defines a normal colon as one that con forms to the anatomical type or bodily habitus of the end vidual is free from redundancies spast ci ties and local or general atom s and contains a mucous membrane that is devoid of infectious and

infi mmatory processes

Loss of function in the normal colon may occur und tihe following conditions (1) neglect of orf ul ty d facation usually associat d vith the cathartic or enema habit (2) pervers on or inhibit on f om d sease elsewhere such as chronic append citis thol cy titis hypothyroi lism or hyperthy oids m etc and (3) infectious inflammatory and ulcerative p oces es in the mucosa of the anatomically norm ! tolon Removal of the c use a d di tetic and hygienic control in these cases are usually sufficient in restore normal funct on

In cases of hypertonic colon ray foods I xativ s and purgatives are contra indicated an I local t eat ment consisting of dilatation of the sphincte and dry powder insufflation should be given Restora tion of function in the atomic c lon is usually effected by a general laxative diet free use of gar gar (a heap ng tablespoonful with each meal) abdom nal muscle e ercises and intermittent grad I dilatat on of the anal canal Purgative and enemata are contra indicated in the mild cases but may be

n ce sary in the severe cases. In atomic conditions sociated with pr m of the sline colon and rectogmoid magne ium sulphate solution should be

applied locally through the sigmoidoscope in addition Certain cases with a redundant colon and tho e with a contracted descending an I iliac colon and atony of the pelvic colon and rectum present difficult problems. In the latter water irrigation ADOLPH HARTUNG M D frequently gives relief

Gordon Watson Sir C Diverticulitis of the Pel vic Colon B tol W d-Cli J 1924 xli 112

Diverticula of the pelvic colon occur where the circular blood vessels perforate the muscularis to reach the mucosa. These weak spots are located between the lateral tama and the mesenteric border

The three most unportant clinical conditions produced by inflammation in and around these acquired diverticula are (1) perforation (2) a subscute suppurative condition analogous to appendiceal abscess and distinguished from the latter by a tendency toward the formation of a fæcal or vesico colic fistula and (3) hyperplasia characterized by tumor formation which closely simulates carcinoma

Frequently diverticula give rise to no symptoms

The subacute and chronic cases often simulate malignant stricture Cases of diverticulitie usually have a long history of irregular bowel action associ ated with pain and tenderness in the left iliac fossa where a tumor may be felt. Absence of blood in the stools does not all avs exclude hyperplastic diverti culitis as blood was found in the faces in three of the author's cases of this type. In contrast to car cinoma there is very little loss of weight The diagnosis of diverticultis is made largely

from the findings of \ ray examination after an onaque meal or enema but sometimes the opening of the diverticula may be seen with the sigmoidoscope The clinical history especially the maintenance of body weight and the palpation of a fair sized tumor

in the left il ac fossa are suggestive

Under the most favorable conditions resection with anastomosis i the ideal surgical procedure when there is some obstruct on Often however we must be content with a temporary colostomy in the hope that the inflammatory condition will subside In the milder cases invagination of the danger ous appearing saccules and overlapping of the involved area with omental grafts may be sufficient J PRANK DOLGHTY M D

Radice L Forty Se en Cases of Colon Surgery

(C id a 0 of a 47 cas d chirurgi d l l n) A 11d ch 9 4 1 384 The cases of colon surgery reported were studied

in Nordmann's clinic in Be lin The author's purpose was to determine the value of operations esp cially resections performed in one two or three stages

Of the forty seven operations thirty seven were for cancer six f r volvulus two for megacolon and two for deocarcal tuberculosis. Thirty two were rad cal resect ons and fiteen were pallintive procedures

It has been stated that operations on the lift half of the clin are me dangerou than this out in right hilf lut in ten execute what a constage perstain was fromed in the right lin the mutility was soper it while in it was an which a net per it was performed on the lift; it was propered.

The author refore expending to their researches of intestal sameer. The post permit in tital to not the unel not for currence were go let an patient between the ages 140 and 100 at 100 miles not as the cutting at the between the cutting at the between 20 and 140 cars 15 at 5 at 100 to 100 at 150 cars 15 at 5 at 100 miles permit on the selection on and 140 cars 15 at 5 at 100 miles permit on the selection of the cutting at 100 miles permit of the cutting at 100 miles

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In the file a cas in which a pullation operation was a like the work of the continues and a point of the managers. Then et his was \$45 per ni

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 ly Koerte in 1913 (13 per cent survive) the operation and 143 per cent is d for three years (if koert spatiert 30 per ent) I fir that t thents on years after operation In 112 Harterfung trol pursual for three 3 are in the 11 that the 11 that the 12 per in the University of the 12 per in the University of the 12 per in the University of the 12 per in the University of the 12 per in the University of the 12 per in the University of the 12 per in the University of the 12 per in the 12 per i

Such fa orill res lt re Itanolin cases of this Fart what is lof carnon a hera th temper a bee. It is 11 Jez la allel (there go il limph c glint can ber to I with it Orite other hand the low-propers of carnonna of the I greatesis makes its earth. I gr is It cult. In the case stuff it has rhoma! I her present frimoses t twel with lore special. You of its lighton to mith I stiprentian made! g

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Cottlif J C Tre Occurrence of Hemat List Appendicties (/ Ir dr II met ne le Umai II) Zi k f Ck 04 3

I must not appenint with cheese of the few occurs tather for on the lut the reversions all Who no exil ness facule farmation are present humanitum, are paids at tols show the most income the manitum are presented to the most income for the nearly restricted the manitum are reliable to the most income for the manitum as well as the results crash ratings agest dather the most present to many fitted at most present to many fitted at most present to many fitted at most present the most present the most present to make the most present the most pres

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In eight case the hamituria was associate! with

The author unim rizes his conclus as br of as

t Hematuria naffenleiti s rare

2 In not all of the reported cases was the hamatuna proved to be due to the appendicutis

3 An etiological relationship is possible 4 The pathogenesis of hæmaturia in appendicitis is not clear

5 In cases of bæmaturia of obscure origin appendictus must be considered

6 In doubtful cases the appendix should be removed BRAIN (Z)

Hartmann II and Mocquot P The Results of Exteriorization in the Treatment of Cancer of the Petric and Left Colon (Résult tad le ténor 1831 o d ns le tra tement du cancer du côl g uche et du côlon pel n) B ll et mem S t d ch 1924 l 5 S

Olimctyc considers the exteriorization operation for cancer of the colon a dangerous procedure but Schwartz reported eight cases so treated in which there were eight recoveries. Hartmann reports teath seven cases with six deaths.

Schwartz performs extenorization in two stages (i) primary extenorization and (a) late resection of the extenorization and (a) late resection of persion in either one or two stages and doubts whether the time at which the resection is done is of importance in the mortality as Schwartz contends The six fatal cases treated by Hartmann were the

following

CASE 1 Man 68 years of age with complete
obstruction treated by a one stage operation for
cancer of the pelvic colon Death three days later

Case 2 Man aged 32 years Extenorization immed ate resection of a pelvic cancer in ading the bladder the pelvic wall the mesentery and the teret and ligation of the inferior mesentery Death six days later

CASE 3 Woman aged 56 years Exteriorization and immediate resection of a cancer of the splenic colon invading the tail of the pancreas Death three days later

CASE 4 Man 74 years of age One stage operation for cancer of the descending colon Death at the end of one month from prostatic kidney and in geomolections.

CASE 5 Man aged 50 years with cancer of the transverse colon Death three days after exterior ration and enterior anastomous of the two I mbs of the exteriorized loops to add as the document of the

the exteriorized loops to aid in the cloure of an artificial anus

Case 6 Woman aged 39 years Exteriorization followed by colours and 30 years

followed by colections. Death three months later on pulmonary complications. Bartmann reports also two deaths following the course of frecal fistular. He considers Schwartz.

methol of closure le s dangerous

Of the thritten of liartmann s patients who could
be traced free are well and without recurrence two
three three and three fourths four five and five
sens repeated), after the operation it wo died
without recurrence siter six and six and one fourth
trace to pectively one from heart disease and the

other from cerebral hamorrhage another is appar ently well one year after the removal of a local necessary of the street of the removal of a local fercurence which developed ten months after the first operation two died from abdominal recurrence ten months and two years and one month respectively after operation one died at the end of six vears from their recurrence without local recurrence and one died at the end of eighteen months from metastases in the liver

In contrast to Schwartz and Quénu Mocquot emphasizes the advantage of extrenorization and resection in one stage in suitable cases. He reports a cancer of the transverse colon which caused symptoms for two years and was successfully treated by exclusion of the tumor and mesentery from the perstoneal cavity and immediate resection of the tumor and its pecule with partial suture of the two ends. An insignificant fistula persisted temporarily after closure of the artificial anus seven months later. The patient has remained free from recurrence for nearly four years.

WALTER C BURKET M D

Mayo C. H and Walters W The Two Stage Mikulicz Operation for Cancer of the Sigmoid S g Gy c & Obst 1924 XXXI I

The authors discuss the comparative value of the various types of operation for carcinoma of the sigmoid with regard to operability mortality per manence of cure and morbidity

As a basis of comparison a report is given of 152 patients with cancer of the sigmoid operated on at the Mayo Chnic by the two stage operation of Mikulicz All but eight have been traced since the operation Fifty two are living and well with a normal functioning gastro intestinal tract and no evidence of recurrence Thirty seven lived for from two to seven years after the operation and in many instances death occurred from conditions not connected with the cancer of the sigmoid As the normal death rate of persons aged 52 years (the average age of the patients whose cases are reviewed) is 2 per cent a year the patients who have died cannot definitely be said to have died from a recur rence of the disease

The technique of the operation used at the Mayo Chin c and reported by W J Mayo in 1907 is described briefly

kroll F The Results of Operations for Cancer of the Rectum at Our Clinic During the Last Ten Years with Particular Regard to Resections (De Ffig d Mastdarmkebsope at one an unser fk li sk welt ndd letten to J hre unter beso derer B nuck icht gung dir Resekt on n Ach J hin Ch. 19, 1319 63;

The disadvantage of resection is the dang r of gangrene of the intestine which often cannot be avoided even when great care is taken to make proper provision for the blood vessels. The sequel in fection of the wound usually leads to a fatal perionities. This occurs in one third of the cases. In

another that in which the gang me it mais comined to small are as instule persist which rarely leal is natarousl and are sellom closed even by subsequent operation. The end result a fread fatuliis me re but least me than an artisi all anus. Leal for entries me than an artisi all anus. Leal of gare the sphaneter the operation is not carried application in not herlith tis us. Sten ses occur following error if sustaining as will as! Howing the fore late in which the gut I drawn through folfore late in which the gut I drawn through folfore late in which the gut I drawn through following the self-gare in the self-gare in the conclusion.

Only tartinoma of the per rel 1 to the rectum can be renvel virt all 10, in care in with the carcin majs high rear in the series who hit is well a knowed it cannot be removed reducially on with the series I vite alone because the corresponding area of kimphate give is interpentione. I and it is be exiting atted only 13, means of a hypatotom. The results are better if the 1 season 1 section of interference and the corre 1 on lang himplate chands are removed in a cally 13 to m and review without compileration for the reset 1 h him ret of continence and an artificial angle is then for require the series of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the reset in the result of the resu

The comfunction was fine in twenty three of the cares renewed. Ih sop fation resem lles the procedure of Ouina With the patient in the Trendelenture posit n a med in in 1 ion is mal the ritt are separ t I both hypoga tri arteries are ligated and the fexure is a parated from the mes a gnoil. The peritoneum of the pouch of I) uglas is then opened and the intest ne mob and limn t the level of the leat r 11 texure t livided in its low r third bet en two i testin ! clamp and toth cut nis fabe gut are chised. The centr I ad a then is ted into the left il ac region the di tal atumn f th inte tine is le red the peritoneum i k 1 Il is have g been done the removal of the well m I lived peru her I en I of the intestine is un! rt ken at on e The metho! is that of kraske with re cet of the cryx on the right s de Lapar tomy perm to the remos lof metastases in lymph nodes at a high I vel. The presence of internal in I particularly organi i clastases should le deter med bel rehan! Their recognition will prevent usels, a t reentions

Of teents the jatient operatel upon in one stage by the ombined route th amput ton of the rectum two fi for pulmo ary conglications from severa in me da s aft r the operation one woman died after eight has a from perit initial to increase of the suture is tumpof the feature another did own weeks latter of er, supela and a third committed winch let may consider the form of the cases a third good on also ce and all of the other cases a third good case that in which peritorities developed was the death the direct result of the operation. The procedure was usually borne surprisingly.

well This is accounted for in large part by the fact that the amount of I lood lost is small ig committee (2)

IB CE Betm fr'

LIVER GALL BLADDER PANCREAS AND

McMaster P D Studies on the Total Bil M The Influence of Diet upon the Output of Cholesterol in the Bile J Expr M d 1924 xl 25

The Jevelonment of a method for the collection fit tal bile from digs in a sterile state an luninfluenced by the gall bl. Here day after day for weeks has reliered possil an accurate study of the influence of diet up in the cholesterol output of the secretium.

The quantity and toncentration of cholester In ig ble are subject to peop unit mod neatron by it stry induce, es. When a diet rich in cholester is great the amount of the sit stance in the bis greatly increased and in almost e try instance the oncentration per cub e creationer become agreater An increase in the total food intake result; grown the ald into the ord in vitation of a lone mush liet containing only a slight add itomal amount of cholestered (roo mgr) produces a smiller though less marked increase. In the fast ing dog the chole terred yell is greatly cut does to greatly estance.

The increase in the cholesterol after the consumption of food rich in the substance does not tepen! on the cholesogue action of the latter th ugh it is trust hat the core ntration of cholesterol

in the lie is utilify increases with the ble volume. Though the quantity of cholesterol in the bl decreases list in glasting its concentration per cub centimeters igreatly increased. On an ordin any diet its yiell fluctuates bripply and con-il r athy from lay to day. In general, the rule both that an animal eating largely puts out not only only me the best of the list of the

The cholest rol reld of the b le does not parallel that of bil rul in The out ut of pigment from day to lay remains relatily o stant as compared with that of chol sterol M a II kany MD

Finhorn M The Di gno is of Gall Bi dder Lesion Med J R 194 9

A stuly fitheful hold bind in all diseases of the hier gill llatte and paner as as it will often be of the gittet as it an. This is particularly true in cases while kith typical diagnostic fettures.

The exami too mut b p f rmed with great caut on The duod nal tube mut be clean ad as nice at let be bl fresh \text{\text{rm}} the bl is a golden vello and cler bl p th logical bit s all ays more or less turbil and varies in c lor.

The sediment shoull be xami ed f r crystals

pus bacters and ep th hai cells M y varieties a d forms of cryst is are found includ g con glomerations of crystals and black sand like p i ticles. The latter Linborn bel ves are always in dicati e of gall bi ddee path logy The reports of three cases are given to demon strate the diagnostic value of bile examinations and microscopi helds of the sediment are shown in numerous illustrations

OSCUE S PROCTOR M D

Ransohoff J L. Cholecystitis Associated with Cardiovascular D sease Chear M Rec 924 11 7 225

Ransohoff divides cases of associated gall tract and cardiovascular pathology into three group (1) cases of gall bladderdy p pasa simulating cardiac disease (2) cases of gall bladder disease associated with valvular cardiac disease and (3) cases of my ocardial description of the corresponding with in

fection of the gall bladder

The cardiac symptoms in cases belonging to the first class are probably due to vagal irritation and will d sappear after correction of the diaphragmatic pathology In cases of the second group a fully compensated heart with a valvular I won does not contra indicate a needed gall bladder operation but when the heart 1 decompensated the severity of the gall bladder condition determines the neces ity for operative treatment. If there is interference with needed rest and if toxic absorption from the gall bladder is damaging the myocardium further and pr venting compensation surgery becomes neces sar) It is indicated also when the ca diac condition is myocardial without val rular disease and the gall badder cond tion hampers recovery The op ration must be the simplest that vill elieve the immediate les on The more severe the gall bladder pathology the more marked will be the beneficial results of operation M L MASO M D

Koerte W Changes in the Field of Gall Stone Surgery (Wa dl g n uf dem G bet d Galle te hiru gr.) Z t albl f Ck 9 4 l

At the fo ty seventh meeting of the Deutsche Gesellschaft fer Charuppe Aschoff Enderf n and Holtz and the surgeons who discus ed their papers are sessed views on the subject of gall stone surgery which differ in many points from the selections held by mo t surgeons spe talizing in this field. The suther was somesh t religiously the press h

author was somewh t reluctant to e press h
pinion at the Congre s but now comes forward to
state his views as one of the older men in the field

ha tegards the format on of the stones beerte still agrees with Nainn, that vatus of the bile and infection are the usual prelim nary conditions. It is of one se necessary to soum that the infection at firt runs a very ston course without distinct symptoms since the earliest formation of gall stones is unaccompanied by not ceable d sturbances. Recent studies have shown that changes in the hemistry of the stomesch are present in cases of thought and the stonesch are present in cases of thought and the stonesch are present in cases of thought and the stonesch are present in cases of thought and the stonesch are present in cases of the stonesch are present in cases of the stonesch are present in cases of the stonesch are present in the stonesch are the stonesch ar

In general it is p obable that gall stones form lery slowly and that they may remain in the gall

bladder for very long periods sometimes during the remainder of life without producing symptoms. The nervous spasms of the sphiniter of the duo denal papilla (Rost Westphal and others) and of the outlet of the gall bladder are important the author claims that he has never seen stasis of billing the spanning of the state of the state of the state of the spanning of the state of the spanning of with the short of the state of the state of the beautiful passages (mucosta is cholestasis) has not been proved.

Knorte next discusses the indications for opera tion Enderlen and Holtz advise early operation for the young and careful selection of cases for operative treatment when the patients are advanced in years The author has frequently come acros former nationts to whom he had recommended expectant treatment because the indications for surgery vere not conclusive and has found that they had suffered no great inconvenience vithout operation. Against ea h operation for all cases Koerte argues that even when operation is done at the most favorable age by the most skillful hands and in an interval between attacks it has a mortality of 4 per cent The elder koenig and Kehr used con ervati e measures. The uncertainty of early diagnosis is another factor against early op ration. In cases of symptoms of stone vithout inflammation the author is guided by the nature of the symptoms. When they are severe recur frequently and are followed by jaund ce he advises prompt operation lighter case a certain amount of delay is justified but the patient must be kept under observation The social indication must always be considered The author does not regard this form of manage

The author does not regard this form of manage ment as neglectful as he has seen only good results from it. He sums up his standpoint as follows

Acute dangerous symptoms constitute an aboo the indication for early operation. In moderate non inflammatory attacks a certain amount of waiting is allowable. With regard to operation the surgeon should be guided by the degree of severity the surgeon should be guided by the degree of severity the surgeon should be guided by the degree of severity the total of the surgeon should be used delay from neglect. The programmator is avorable in the young. In the cases of other persons it dep nds upon the general conditions.

Koette favors d ainage of the hepatic and common ducts Herga skall ply suclogical incusions on the abdominal will as good but recommend also the auphy suclogical oblique into ions through the tectus muscle which give a good approach and a good sear. The discussion on primary closure of the abdomen he considers to be ended. If one is wise one drains for a short time. Kehr s gauze tamp cannot so to longer in general use Cass (Z) canade is no longer in general use.

Kirschner M When Sh uld Operation Be Per formed in Ch lelithiasis? (Wann s ll n wn die G llenste kranken pen en?) Zent ibt f Ck 924 lt 83

During recent years the ind cations for the surgical treatment of cholehthiasis have been constantly

exten fed. As easily as 1918 the author expressed the consistion that all conservati e recourse extended to a simple that all constraints are supported to a simple martie nature and unable to secret a retrianguing influence on the course of either the acute attacks or the disease fisself and that it wis of the 1 slight 1 to pect of permanent spontaneous cure and the diagogs of fatal complications every case of the lighths is should be operated on as soon as at its recognized with certainty, if the patient is in good cord to and not too a branch on years. Since the last Surgecil Confers there has for no need accretional with fat is a consideration of the property of the patient is in good cord to and not too a branch on years. Since the last Surgecil Confers there has for no need accretional with this of w

kinch et calls attention to the fact that has statement feer loolly to the privacy loof operative streamer and in to the time for operatin in the fin is fluid case. He favors early operatin is the case of cholosibilities adomne the scale states has cased of cholosibilities adomne the scale states has cased of cholosibilities adomne the case states as farst I and the git II had for the chocos of materia than usually be removed intact. The opening of intraperia in all a scesses if these are present in out in the price of the case

kirichn t loe not close th slubimen primarile en fin uncomplicated perstons performed during oul se nt interpola but on the oth r han l in operat nos perf trend funns an acute attack he textects the u e of tamponal and france. He always prepared in case he meets independed and always prepared in case he meets independed and lands as pulled to the complete of the c

Lattents bein oper toon dring an attack extendingly well. The auth r has never noted this junitee increases the ten lenex to bleed. In the active ratege the patient is mr. will not submit of operation. It style operation shortens the period of illness and permits an earlier return to with kirschner loses not urge perata in within the first hour after it patient admission to it hospital but hele eves that on day is usually sufficient to the presoperation (s. 50. Operations).

MISCELLANEOUS

iferts J Beat e J and Ciff for R Phreno as an in-linder mit of the Geophageal Dia phragmatic Illians. If oph gopla ty by the Three Abd min | Latraserous R ite (The op me dir g em til rift oph ga fique di loes pha cos ph. b, t) par the oald mil | c tast se) B it I milm Soc I d da 1002 | 1500

The con lition of phr n spasma us ally lesignated as mega ces plagus or the pathic d latation of the crophagus

The authors report the ca of box 1335) are of who sinc his second ye r had exp r need infliculty in swall wing solid food especially bread

an I meat. Such find caused a sensation of thoracic fullness and atoppage at the level of the base of the aiphoid cartilage and was soon expelled. As the result I the lifeculty the patient had lost weight result. I the lifeculty the patient had lost weight that the lifeculty was negative. The V ray showed mega resophaging with Childred enlaters.

showed resembles were registive. The X-ray showed resembles and the property of the X-ray portion and individual entire of the X-ray portion and the X-ray portion and X-ray are the I must filters in a the ribbon across the stenosed area. Espohysycory revealed no least not the museum and concollares wind as a slopped at the level of the disphage wind as a slopped at the level of the disphage wind as a slopped at the level of the disphage wind as a slopped at the level of the disphage wind such sounds acroptine and distation.

Under el loroform anevathena a rectangular flas as mai on the left ald with its homeontal base an en hi t athrib. The tenth eles in the a street in the we reset in ell subjective time a subjective time with the site is at tens of the processes and subpremote resection of the twelfith in his adore. The plean was stripped awar from below upward with a compress. Alth upt the plearur was so thin that the adjucent lung could be seen at was not torn the control of the cont

The fibers of the hupbragen were divided vertically a free the erosph gas from below upward. The I (it is feature diaphragmanic artery was ligated behind the erose hazes. The fat our the upper pole of the left is been tell. The part of the is much not or creditly pertinenum was doen in diamet and 1 sphr grantic port on of the crook places and of the crid a received no indust into or hypertrophic activation and the crid a received in the diaphragm was mixed to the mucoas vert cally and sutured hor zont By frasphyspolis (b). As ghi mght pneumo the sac occurred but the I (in place was mixed.) The diaphragm was sutured with chomic capper. The diaphragm was sutured with chomic capper.

dt in was placed in the la ver inner angl.

The operation was followed be cep us drainage for the lass. The patient g of rait cond inon was good. The pincumothor x grad in libectance as alghidaspiner, and faller the preumothorax a small amon at find unexpressed in the night pleuric cavitt. Vran xaminations that le in the night pleuric cavitt. Vran xaminations that le in the faller the road pleuric cavitt. Vran xaminations that le in the different land the complete was not made in the attention to a none time fairt who de that the brown passed in on with a normal time and without the complete was normal in a size a different and the cooping was normal in a size a different land the cooping was normal in a size a different land the cooping was normal in a size a different land the cooping was normal in a size a different land the cooping was normal in a size a different land the cooping was normal in a size a different land the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was normal to the cooping was not to the cooping was normal to the cooping was not the cooping was normal to the cooping was not to the cooping was normal to the

The child mal n une niful reco era and has gained ght He i now able to a allow solid foods without ifficults. The sprom ter shows a normal lung capacity.

Although the term phreno p m ind cates th level of the obstruction th condition is not at avs

spasmod c
The Hert a d Br ine extraple ral operation with
enlargement of thed phragmat c resophag all hat s
and resophing if sty has given norm f resophageal

function and size for one vear since the operation it is too early to know the end results but Grt gore also recommends this method is miniar cases. The treatment of mega cros-plang by other procedures has not given very encouraging results. In one case treated by Part by the transpleural route death resulted from pleural complications and in another treated by him by the abdominal route the dilata.

WALTER C BURKET M D

key E A Case of Diaphragmatic Hernia Compilcated by a Perforating Gastric Utcer (F II) on Herni diphragm tic Kompilzert nt pe et ered m Maging chwuer) Z traibi f Chir 9 4 1 95

A man a o years of age suffered for more than ten

years with gastric ulcers causing frequent severe hemorrhages Roentgenological examination re vealed a diaphragmatic hernia on the left side and a niche suggesting a perforated ulcer in the portion of the stomach lying within the diaphragmatic

Under anæsthesia induced with a 22 F catheter operation was performed by the transpleural route with removal of a section of the eighth and ninth ribs The separation of the firmly adherent lung from the diaphragm was difficult. A bernial opening four fingerbreadths wide was found at the highest portion of the diaphragmatic dome. The stomach was firmly adherent to the diaphragm and the lower surface of the lung At one point in the edge of the hermal aperture where the adhesion was particu larly strong a perforating ulcer was found. The stomach was opened at the site of the ulcer de tached sutured dropped back into the abdomen the ulcer was cauterized and the opening in the diaphragm closed The wound was sutured around a Mikulicz tampon introduced to the base of the

The operation was followed by primary healing and recovery Von Tapperver (Z)

GYNECOLOGY

UTERUS

Schlink II II: Chronic Diseases of the Cervix Uterl with Indication for Endocertical Enucleation and a N w Instrument for its Perf fm nee Med J A / a / 1024 i 5

To the removal of the gland bearing are in the critic the person which is sully becomes induced most cash, and is most of foult to clear up, the author has deep consistent of the person of the perso

The staff with the tenscula concealed syntre lived into the cervical canal to fix folliert eatent the tenacula bid less then being exter left by a x-rew at the hand lee n! In this m met the staff is fix with the cervical tissue and the cervical tissue and the cervical tissue can the cervical tissue can sold it in column of mucosal and censcal tissue to as lift in column of mucosal and censcal tissue to a fix it in column of mucosal and censcal tissue to a fix it in column of mucosal and extended the mucosal and the censulation of the mucosal configuration of the mucosal configuration of the censulation of the cens

ren peri fraed Ila ny W Fi n M D

Stropeni L. Uterline Hibromy omnate and Ovarlan Cynt. Which Ha o Become Detached from Their P int of Origin and Are Nouri hed by Adhest no to Nearby Organs (F) in minut r i of to a min bd. Atta 1 dpc f it fill a nd gr enutrat per aler nee n knip os min) K stal d pc o 4 ii 4 ft.

The author reports two c ses of uterine fil romy oma and two of ovari n cy t

CASE t. The pittent was an unmarried woman 40 years of age who complained of gradual e la gement of the abid men due to a pitpill tumor. The pre operative I agn 351 mt le l.y. xternal abd. minal and rectal examinal in was soil tum rof th. right on arr. with filtroil uterus.

At operati n the omentum was found pulled to the right and a lherent to a tumor the use of a fetal head. The neoplasm was of a fie he if from t u structure pink and without any e idence of necrosis. The uterus pre crited several small subserous flore dis similar in app arance to the g owth removed.

Case 2 The patient an unmarried w m n 4; years of age consulted the author because of abdom nal enlargement and a palp ble mo able

tumor. The pre-operative liamosis was large subserous fibroit or ovarian cystal noma.

Operation d selve I a smooth pink tumor the size of an a lail heat who has I berent but it per pol to the omentum and bed we to the position represents the left bread I cument and the left there is not extended to the left bread I cument and the left presented on its poster. I supert a whitable are intelled are the last of a treatment of the left of a rice whence is said and or of t o of blood. The extremely host pedide present give sign of tons in was reduced to a tea treatment and the left of a rice and the left of

necrosisty was this of a 45 car-all pure v who had not rene triated for to months and better hereif fregnant. Tow if the end of the the lerind is repaired to the control t

Operation died sed a cvst the size of an adult be 1 whit h as strongly addressed to the month it is intensity as the process of the strong with the strong with a strong with the strong with the strong with a stro

Case 4 The patient was a null hara 24 years of age 1 m scarninge in June 1922 was followed by prof s I ue reheea with diffuse p in in the lower part of the abdomen which radiated ti the back As these pains increa ed in intens ty a right sal pingo-odi h ctomy was i ne Menstruation reu ed n D c mber but soon became irregular and a m trotthagia supers n 1 1 u gro s of 1 ft salt ngo o phonts and ham rehagic en lometritis was thin mide Laparotom perfoin din April 1923 d cl ed a cost th size of a fiet bich was a therent to the mesos gmo ! There w s no trace f any co ects n between the cyst nd the genital organs. The cyst was found to be of the o dinare multilocular ariety witho t ny remains of ova rian tissue

The author goes into a d tailed d cus n f the et logy a l pathoge esis of these cysts and uppleme ts h s article th n excellent bibliography S arone of P LW M D

Lockver C Remarks on the Treatment of Fibroids of the Uterus Best M J 10 4 1 1 17

The clear indications for my omectomy are (1) to preserve for the non gravid woman a functional uterus (2) to cope with a surgical emergency during Lockyer has performed abdominal myomectomy thirty three times with one death He believes that myomectomy is well tolerated by the gravid uterus and that during pregnancy it i not indicated for fibroids which he well up in the abdomen and are causing no symptoms. When the bleeding is severe it may be impo sible to save the graved uterus

In considering supravaginal amputation or subtotal hysterectomy he states that if subs ment to bearing a child a woman requires radical treatment for a fibroid of the uterus, the cervix, hould be removed Remo al of the cer ix is indi ated also in the case of a nullipara with chronic cervicitis. Ho ever very many subjects of uterine fibroids are eld erly nullipara and virgins with small and possibly atrophic cervices and no internal complications requino aginal dramage. In such ca es the vaginal ervix may be left. When the cervix is den ely ad herent an attempt to remove it with the tumor would be dangerous

In 479 abdominal hysterectomies for uterine fibroid Locks er performed the supravaginal opera tion 284 times with five deaths a mortal ty of 1 76 per cent and total histerectomy 195 times with three deaths a mortality of 1 54 per cent Routine senal sections of 900 uten removed showed that cancer coexisted in the stump in more than a per

The author contends that there is no need to

shorten the vagina in the total ope ation As regards morbidity he states that simple cases

run as smooth a course after the total operation as after the subtotal operation but purulent case progress better with the vaginal drainage afforded by the total operation

Even above the age of 40 years it is better to con serve one or both ovaries if they are healthy

Complete hamostasis can be effected only by radiotherapy by a bloodless castration which is a

disaster for a woman und r 40 years of age The mortality of radiotherapy has been placed at I 5 per cent This is about that of hysterectomy

but the risks are such that it is a greater responsibili to advi e the use of rad otherapy in preference to radical operation

The ind cations for radiotherapy are elatı elv small tumors uncomplicated by degeneration or dis ease of the appendages cases in which the syndrome closely simulates that of the myopathic uterus (thronic metritis) caus ng postponement of the menopause with severe bleed ng after the age of 40)ears cases of uncomplicated fibroid requiring treatment but in which the general health contra indicates operation and cases of profound secondary anem a in which it may be used to improve the patient s condition sufficiently for rad cal operat on

Radium is preferable to the \ ray being less destructive to o arian ti sue and exerting a more marked effect on the uterine muscle

Uterine fibroid need no treatment whatever in 55 per cent of the cases Removal is indicated in as per cent, and radium treatment in to per cent ROLL DS CROY MD

Durante G and Roulland H A Malignant Embryonal Tumor of the Uterus Myxochon droma (Tumeur embr) nnas e maligne de l'téru my ocho d om) G ucol g 037 44111 103

A very rare and interesting tumor of the uterus is reported The patient a 52 year old woman who had been married twenty six years gave a history of two miscarriages and the normal delivery of a female child The normal delivery was folloyed by a febrile puerperium which confined her to bed for six weeks Three years before she was seen by the authors she suffered with menorrhagia. Later men struation became irregular painful and more or less hæmorrhagic. In Februars 1923 a curettage was performed but a month later the bleeding recurred and the flo was greater than ever

When the patient was examined by the authors she had lost considerable weight and her pulse was 110 The abdomen was tender and distended and there as a feetid serosanguinous discharge from Complaint was made of painful the vagina diarrhora and nausea Vacinal examination revealed a funnel shaped or ity at the end of the varina from which there emanated a very fortid odor At the base of the cavity was an irregular soft tumor 1 diagnosis of neoplastic uterus with pentoneal reaction was made

Operation performed May 22 1023 reveal d an epiploic mass adherent to the uterus. On separation of this miss a blackish I quid escaped. The uterus hich was the size of a fist presented on its middle

and anterior surface an ovary from v hich protruded a mass of the same consi tency as that palpated on aginal e amination A total hysterectomy was performed There was no enlargement of the lumbar glands After a sto my convalescence the patient improved gradually and vas discharged

on the twenty e ghth day

Four months later her family physician wrote the authors that she had been seized with severe abdominal pains and presented on the right side of the abdominal scar a tumor about the size of an egg When this was ope ed it proved to be of the same type as the growth that had been removed. There after her condition became gradually worse and she died at the end of September

The uterus was the size of a fist and presented noth ng abnormal on its posterior surface. On its antenor surface its wall had been replaced by a budding frable mass in the center of which was an onfice communicating directly with the uterine

The neoplastic mass infiltrated into the myome trium branching from all sides. Its exten ion vas preater on the pentoneal surface than on the intra uterine surface It was softer than the myometrium and of a darker color

On microscopic examination the tumor was found to be formed of tissue closely resembling that of a very young embryo In the middle of the stroma were small cartilaginous masses. The neoplasm expanded by sending out between the uterine bundles branches composed of a myxoid type of tissue On the basis of the microscopic picture the authors came to the conclusion that the tumor was embryonal in type and very mal gnant

The article is illustrated by numerous photo micrographs SALVATORE DI PALMA M D

Forsd ke S Cancer of the Cervix B | M J 1024 11 04

The author discusses the etiology of cancer drawing attention to the relationship of precan cerous cond tions such as erosions fissures lacer ations chronic cervicitis and bleeding cervix to lowered resistance due to malnutration and infection

He has not been able to correlate the type of malignant cell with the degree of malignancy. The diagnosis depends on digital examination visual inspection and microscopic examination of removed

tiggite In cases of carcinoma clinically limited to the

cervix the only treatment is operation When the lesion has invaded the pericervical tis sues radium treatment of the cervix and Y ray

treatment of the pelvic tissues are indicated Salts of copper play an important though subsidiary part in treatment with radium

In surgical cases pre operative and postoperat ve arradiation is of considerable value

ROLAND S CRON M D

Greenough R B The Treatment of Malignant Diseases with Radium and the X Ray I Cancer

of the Cervix S & Gy 6051 94 XXX 1 18 Of 820 women vith cancer of the cervix ninety four were free from the disease three years or longer after treatment. More than half of these cures were obtained by the use of radium and the Y ray without rad cal operation. No cures were ob tained with the cautery alone

In 243 cases of early favorable and borderline cases hysterectomy alone cured one in three with an operative mortality of one in five Radium with paliative operation (cautery) cured about one in three and radium alone or with palliative operat on about one in five Under these conditions it may be said that the choice between operation and rad um in the treatment of early and favorable cases of cancer of the cervix is an open choice. It is to be borne in mind that the results of radium tre tment with present-day technique are not yet known but it is generally believed that they will be better than is indicated by the figures here presented

In more advanced cases the cures obtained by radiat on or hy terectomy were very few

In unsuccessfully treated early cases the duration of life is somewhat greater after radium than after operation The formation of rectovaginal and vesi covaginal fistulæ occurred with nearly equal fre

quency following all methods of treatment Radium with or without the X ray or nalliative operation was the most important agency in the destruction of local disease in cases which failed to The value of radium as a palliative obtain a cure agent in advanced cases is beyond d spute

In the treatment of recurrences following hyst r ectomy and in cancer of the cervical stump rad m

therapy is to be preferred to other methods A dosage of radium sufficiently large for destruc

tion of the local les on is necessary In conclusion the author states that a uniform classification of the pathological varieties of cancer is desirable CARL H DAVIS M D

Schreiner B F and Lr s L C Unt ward Re suits in Radiation Therapy f Uterine Cancer When Complicated with Latent Gon coccic

S lpingitis Am J Ro tg 1 0 4 This report is based on a study of 404 cases of cancer of the uterus treated by rad at on at the New York State Institute for the Study of Malig nant Disease. In five cases there was a sev re peritonitis and in four it resulted in death. These

five cases are reported by effy While chronic salpingitis complicating utenne cancer may sometimes cause a fatal periton tis following rad ation the authors do not believe that all cases of gonococcic infection complicating to cer of the uterus will have such disastrous results Intra utenne manipulation may be a factor in light ing up old gonococcic infections but in the cases reported was not the sole cause Gonococcic's l p ngtis may be lighted up by exte nal rad ation CARL II DAVIS M D alone in cancer doses

Babcock W W Chemical Hysterectomy Am J

Ob 1 & Gyn c 1024 VI 603 For them cal hysterectomy the patient is p epared and placed in the position used for uterine dilatat on Local or general anasthesia m , be employed The cervix and internal os are dilated sufficie thy for the introduction of a uterine packer the cavity of the uterus is explored and scrapings and the di charge are removed for laboratory study A uterine packer preferably one with an obturator is introduced will through the internal os and the cavity of the cervix and uterus is thoroughly packed with a na ro ga ze tape impregnated with a saturated solution of chloride of zinc During this proced re the vagina is protected by a strip of gauze imp egnated w th dry sodium b carbonate that extends from behind the cervix out under the weighted vag nal retractor The vagina is so packed with other strips of the soda impregnated gauze that the cerv x and the caustic tape issuing from it ar completely surrounded

The packing incliding the cau tic tape is with drawn at the end of a venty two hours or less de pending upon the amount of gauge used and the thickness of the uterine walls. If is mile or less of gaule are used the packing is removed in seventy two hours if to mils of gauze are used it is removed in eighteen hours and if 60 mils are used it i re moved in four and one half hours the duration of the application of caustic being equal to seventy two hours divided by the square of the multiple of 15 mils of gauge. The time of the application is checked also by the thinness of the uterine walls. It should not exceed the number of hours represented by the thickness of the uterine walls in millimeters multi plied by two When the uterine walls are only a mm thick the caustic should not be left in for more than six hours when they are 6 mm thick it should not be left in for more than twelve hours and when they are 1 cm thick it should not be left in for more than twenty hours

The uterine slough will usually come away after about a week. The expul ion of the mass may be associated with uterine colic. While some of the author a patients have been permitted to be out of bed after the fourth day it is was to keep them in bed for one week and under supervision for nine days.

Chemical hysterectomy is presented as an additional measure for the removal of the essential parts of the uterus but must be used with care and good judgment. It has a somewhat furnished field and will not supersed the use of radium in gynecology or the exhely for hysterectomy. While it is obviously consistent to the control of the co

EDWARD L CORNELL M D

ADNEXAL AND PERIUTERINE CONDITIONS

Cherifer L Fumery J and Dausse C Results
Obtained from Autoraccine Therapy n Utero
Adnessa Affections (De quelq es é ultats b
tenus grâce à la tous cnothé p dans l t aite
ment des affect no sutér lles) Res f c
de ty te 1d bt 934 yr 93

Not statisfied with either medical or surgical treatment in many cas of inflammators utero admission ment in many cas of inflammators utero admission does on account of the associated prolonged morbid ty or multiation. The authors experimented with autogenous vaccine therapy as an adjuvant to the usual methods of treatment. The best results were obtained in recent acut infections. In chronic case the solution of the infecting organ sms is inducted very difficult by the presence of second ary infections.

The material for the autovaccine was obtained from the cervux by means of a pipette one end of which was bent at an angle of 140 degrees. The Patient was placed in the lithotomy position the Patient was placed in the lithotomy position the Patis were scrubbed and a aginal douche of boiled water at body temperature and sthout any

added antiseptic was given. A stenle speculium was then introduced to expose the cervix. Dilatation of the cervix was seldom necessars. It is ver, important that no vaginal secretion be obtained. If there was no discharge the material for culture was obtained by means of a platium needle introduced into the cervical cavity. From immediate examnation of the material on a side it was usually possible to determine whether the infection was due to a streptococcus or the gonococcus but in all ca es a medium that would grow both types of organisms was employed

Vaccine therapy was first used by the authors in June 1922 All of the patients who received thi treatment were given douches and enemas every morning and evening In general they received one or two series of ten injections of 1 or 2 c cm of the vaccine every other day. The fifty cases treated included salpingitis salpingo-oophoritis pelvic peritoritis parametriti and metritis. The sites of injection were on the abdomen above the iliac spine and on the thoray The vaccine was injected very slowly It was found to be contra indicated in patients with tuberculosis and albuminuma local reaction was often painful and associated with inflammation but in eight cases there was no pain or local manifestation. In fifteen cases only pain was present. In seven cases the reaction was severe Usually it occurred only after the first few injections Pain was caused by all of the injections in only three cases

In tharty cases there was a general reaction Usually this followed the second fourth or eighth injection. It was manifested by a moderate fever (373 degrees C) thills sensations and malaise In some cases it was marked. When a focal reaction was obtained the patient was usually releved very quickly. This reaction consisted of a pricking sensation in the region of the adneral congestion of the pheartment of the microse of metrorrhaga or the pheartment of the microse of the pheartment of the phea

The act on of the vaccine on the functional disturbances was evid need by arrest of the metror things and ferequently by complete cressition of the leucornition. If the leucornition are presented it was very slight, error and understand that the fourth injection the pan became less severe and soon cased. The last effect was constant. The physical signs of the infection were improved in almost every signs and the injection were improved in almost every signs. The present of the constant of the physical signs of the infection were improved in almost every signs.

A Clinical Contributi n on In Schlink H H ternal and External Migration of the Ovum and the Import nce of Excising the Intramu ral Portion of the Fallopian Tube in the Op eration of Salpingectomy Med J Aut ha

Internal migration of the ovum has been proved to take place in the sow In tubal pregnancy in the human female the corpus luteum has been found in the ovary oppos to the pregnant tube Migration of the ovum in the human female can be demonstrated only under exceptional conditions The author has clinical evidence of both internal and external wandering of the fertilized ovum and reports a case of external and internal migration occurring in the same noman

Six weeks after a curettage for incomplete abortion the patient entered the hospital with pelvic inflam mation At laparotomy both tubes were found in flamed and the left was occluded The right ovary was degenerated and cystic \ left silp agectomy was performed but the intramural portion of the tube was not removed. The right overy was excised and

the right tube left in s fu

Two years later the patient was admitted in a state of exanguination and collapse with a history of sudden pain in the abdomen and fa iting but no amenorthma The abdomen was greatly distended and fluid was present in the pouch of Douglas When the peritoneum was opened a large amount of fluid blood was evacuated. The uterus showed a large rent in the pos tion of the cut-off stump of the left tube No fetus was found Because of the patient s desperate condition the abdomen was quickly closed Recovery followed

Four months later the abdomen was again opened the diseased and adherent r ght tube was removed

and ventrofixation of the uterus was done

The author beheves that the o um after escaping from its graafian follicle on the left side was carried across the back of the uterus by the currents set up by the muscular action of the fallopian tube and its fimbria on the right side became fertilized and then continued on its way to the uterine cavity and into the cul-de sac of endometrial muc us membrane formed by the unremoved intramural portion of the left fallopian tube. There it continued to grow eroded through the less resist ng mucous memb an of the tube and finally ruptured into the per toneal

In conclus on Schlink states that this case em phasizes the importance of removing the int amural portion of the tube in salp ngectomy

HARRY W FLK MD

An pach B M The P eservati n of the Ovari in Pelvic Su gery Atla ! M J 924 xx 6 5

From a study of 170 cas s operated upon the

author draws the following conclus as Conservation of one ovary or of both s of great value in pelvic surgery The condit on of patients operated upon conservati ely is vastly better than that of nationts who have been subjected to radical procedures. This is evident from the absence or postponement of menopausal symptoms the infre quency of backache abdomi al pain and necessity for postoperative pelvic treatment and the patient s

own estimate of her general well being The surgeon's attitude should depend upon the age and social standing of the patient. In the young unmarried woman and in the sterile married woman who desires to bear children the ovaries must be conserved if this is poss ble In the cas s of older unmarried women the operator should be guided by the patient's desire for marriage and child bearing and her nervous and mental combrism In multipara conservation of the uterus with the

ovary or ovaries is less important but in each instance the final decision must depend upon the age the social status and desire of the pati at herself After the age of 3 years the indication for conservatism rapidly becomes less definite although menopausal symptoms may superv ne the use of ovarian extract will tide the patient over a trying period and the balance will then be restored the patient being free meanwhile from the physical suffering entailed by the presence of patholog c lesions in the pelvis and their results Except in the very young and unmarried co serva

tism should not be practiced when it is probable that the organs allowed to rema n will give rise to future trouble unless it is the expressed desire of

the patient to run such a risk

Conservation of the ovaries in hysterectomy for ute me myoma is more uniformly successful than their conservation in hysterectomy for pelvic a flammatory disease Obviously this is due to the fact that the ovaries are healthy in a much larger percentage of the cases of myoma than in those of pelvic inflammation

When possible the tube should always be con

served with the ovary

Single graafian foll cle or corpus luteum cysts of the ovary are more favorable cases for resection than are small or multiple cystic degenerations of the entire ova y When it is important to conserve ovarian function and one ovary is ent rely healthy and the other one is dis ased exturpation of the diseased organ is preferable to ovarian resect on

In cases of displacement of the uter, with pelvic adhesions in which both o aries whibit thickened capsules and mult ple small cystic degenerations a d co serv tism se ms desirable it is advisable to release adhesions and place the ovaries n good post on by me proced re not involving d re t suture of the ova y tself This is usually more successful th n blateral r ect on unless decided hypertr phy 1 pres nt In th latter case of course bilateral s ct mu t b perform d

The unfavorable results of hyste osalpineo cophorectomy are not always ecognized by the patient in the form of hot or cold fla hes In some cases complaint m y b made of nervous nstab ity arritability loss of initiative and go eral asthenia

without mention of the typical vasomotor dis-

Sexual desire is little affected by castration after it has been developed. Not infrequently the pathologic condition removed by operation even thou h complete castration is necessary relieves deepareuina and makes coitus more acceptable to the oman than before

The administration of the dried preparations of the entire outary freshly prepared greatly amelio rates the symptoms of the artificial menopause When bilateral oupborectomy is perform in the admin tration of these products should be begun

immediately and continued indefinitely

When both oarnes have been removed or when in 30 to do no creation of one or both ovaries the removal of the uterine fundus or existion of the fallopian tubes has arre ted the mensitual flow or make reproduction impossible care is necessary in advising the patient or her family regarding the nature of the operation.

If good judgment is used much can be done to save the pride of the wife and the faithfulness of the husband and the pat ent is mental complacency that have been supposed to the mercy of inquisitive and gosuping friends ROLLOF S CRO M D

Miller C. J. An Ovarian Graft A Case Report

The patient a noman S years old first consulted the author in 1915 She had had t phoid at the age of 19 years measles and mumps recentl malana everal times. Men truation began in her eventeenth year and after the first year wa fairly regular. She had al axs been nervous and had al ways suffered from do smenorrhora with intense back ache and headache. She had had one full term normal delivery which caused se ere laceration and was followed by slight fe er Two years before she consulted the author she had an appendectom and at the same operation the entire left ary and a portion of the right ovary were emoved because of multiple cists and the laceration we e epaired The results of the repair of the lacerations were not boog

In April 1015, the uterus was curretted an extension as 6 stars of the energy separate the right on any removed and the uterus supe ded by the Montanery technique. The remainst of oars was us, etc.) ostice and burned in adhesions and there was acted abscores between the igmod a find the tending the left of any The latter were freed as trailly on the left of any the latter were freed as trailly on the left of any the latter were freed as trailly on the left of any the latter was the latter was the latter was the latter was the latter was the latter was the latter was the latter was the latter was the latter was the latter textus mavele.

Menstruation was re-established about three between the after the operation. The period were in regular frequently coming on a week or to ahead of time but the disancorrheea called early by

In Just of 1917 the patient reported that about three months previously a small mas which was very

sensitive to pressure appeared about an inch to the left of the scar and was gradually enlarging. Coincident with its appearance practically continuous metrorrhagia began. Examination showed whit was obviously a cystic condition of the outrain graft and excision of the graft was added.

The operation was cottrely a thout incident A small portion of the graft was apparently still normal but the lower end was cystic and contained about 102 of clear fluid. Microscopic study revealed an actic ecorpus luteum. Within a few days after the operation the metrorrhaga ceased entirely an since then there has been no return of the flow.

CARL H DAVIS M D

EXTERNAL GENITALIA

Fraenkel L. The Formation of a Vagina from Skin (Puld g e r Hauts heid) / ralli f Gy s k 1924 | 1 1 1 103

As re-ection of the intestine for the formation of a signar appraied to the author to be too serious an operation for the indications he sought to form a signal for the external skin as this resembles the vagina in structure more closely than the mutous membrane of the rectum and the supply of it i plent ful. As in prolap e the mutous membrane of the vagina comes to resemble penderms it appeared probable that in the depths of the pelvis the stan would become vaginalized. Moreover by this procedule fa orable preliminary conditions would be obtained for oliptas since the corpuscles of the nerve endines of the skin show a structure exactly like that of the corpuscles of the gential there is

After separation of the bladder from the rectum Fraenkel carnes a tube of skin attached by a broad base on the vulva through the pel 1s and fires it to the abdomanal wall. He believes that because of its blood supplifrom above and below and its insertion in the pelvic connective tissue a vagina thus fashioned will survive.

A case in which this operation was performed was that of a health, 20-year-old girl with well-developed secondary sexual characters ties normal vulva and an intact hymen with a crypt in the center the size of a lentil from which no passage extended inward The patient was first placed in the dorsogluteal position and after excision of the himen a cavity of the breadth and depth of a multiparous varing was formed with blunt instruments between the bladder and the rectum and packed with todoform gauze The having been done the patient was placed in the Trendelenburg po ition and a trans verse Plannenstiel incision was made. Between the bladder and the rectum was then seen a tran ver ely running cord about 5 cm long and with a saddle bke indentation in the center which on the net and left sides increased in size to form the e tirely di connected horns of the uterus. The adnesa were

lite a transverse incision had been made over the ves co-uterine plica to the single mullerian cord which continued downward the list lier was freed. The foldoring pause was then removed an II-be lost of connectic toxice were potentiated to the layers of connectic toxice were potentiated to the layers of connectic toxice was exposed the patient was again pleed in the lossoplicial powit in and two rectainful flaps tyem longant gent wide—one on each silt was exposed the from the layer port in of the bar were freme from the layer port in of the bar majora and the inn r s l of the thigh with there have to make the list of the layer list of the layer list of the layer list of the layer list of the layer list of the layer list of the layer list of the layer list of the layer list of the layer list of layer list of the layer list of layer list of the layer list of layer layer list of layer la

closed in I I remost.

With the ail of a forceps inserted from above the tip of the ne I construct I vag na was then I rawn into place. The nilk retein in sutures previous lip baced in the dip of the skin tube were curred interfally on the right and on the left through all the layers of the abdominal wall at I sted over a construction of the tube was I ne nat I the all hominal wall of set in four layers. The thigh wounds were closed with interrupted nilk sturres.

Mew we ekslater the sec. Ist goof the operation was performed. This con i ted in dividing the flars from their I uses and auturing them car fully permanent catheter was then inited ced and a

protective dressing applied. Fever was present for eighteen days. Healing occurred by secondary intention. A necrotic step about 10 cm long and 215 cm wife was extruded through the abd minal wall.

When the wounds wer clear and the aveil got the vul a hal grone down both daps were found to be healed in the enl of the vagina coull not be palpated epithelization was complete and the introttus was ufficiently with Effehin! the trius was a constitute introduct which the fir passed int a smooth tube of n rmal breadth On the left labum mylus was a rife of tisses which will be removed later. The upper portion of the flag hal become necrotic and in a toff because of the proportion bettern a successful to the anteror abbornail will was not successful to the anteror abbornail will was not successful.

I future operat in the author proposes (s) to implie the rull imentary uterus in the stank shift) to remove the thich stips stall e with the (s) to remove the thich stips stall e with the limb in exter join an laddiction in order to do in a better tendency, toward h. In quantify the stank stank stall in some cases to take the flee from the stall in some cases to take the flee from the stall in a parallel with the longitudinal into interest and learn them from above downward.

William (C)

ORSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Teacher J H On the Implantation of the Human Ovum and the Early De elopment of the Trophoblast J Obst & Gy ac B I Emp 1024 XXX 16c

The process by which the human o 'um becomes enclosed within the decidua is still unknown. Hunter stated that the membrane to which he gave the name decidua was the endometrium modified to serve the needs of pregnancy but offered no theory to account for the formation of the decidua reflexa The idea that the mammalian o'um attains its access to the stores of nutrition in the maternal circulation through the destruction of maternal tissue is based on many studies of human and com parative embry ology. In a monograph publi hed in 1899 Peters gathered together all the data that were then available

The lamous Peters ovum about 2 mm in diam eter was already embedded in a little s elling of the decidua A gap in the roof of the decidual cavity was closed by a mass of fibrin and blood clot Peters theory that the human ovum implants itself m the decidua and that the gap over it is closed by a coagulum still prevails and seems to be borne out by the examination of other human ova

The Teacher Bryce ovum described in 1908 and known as TB r showed only a v ry small circular aperture the lips of which were composed of decidual cells like the rest of the roof of the ca ity and the aperture was occupied by a small mass of form and leucocy tes It was held that this repre sented a true aperture of entrance for the ovum and that the wide gap and closing coagulum of the

Peters ovum were secondary find ng

This article is a critical estudy of the original Teather Bryce ovum and of a second ovum to be known as TB 2 The second ovum was found at autops) at the Glasgow Ros I Infirmary on June 12 1923 It was prepared in the usual manner and showed more clearly than any prevously described specimen that there is nadhe on of the blastor) st to the roof of the decidual can'ty at the aperture of entrance and that th re is a filling of the aperture by an outgrowth of primitive ecto derm This 1 a mechani m by wh ch the last en tenng parts of the o um clos the aperture through which it entered the decidua. For the closing plug the author suggests the name operculum

The monograph is most excellently illu t ated by ink and col red drawings

The author s conclusions are the following

The human ovum burrows into the endometrium lke a vigorous parasite destroving maternal tissue

and provoking an inflammatory and reparative reaction 2 The closure of the decidua capsularis (reflexa) is

effected by an apparatus developed from the last entering cell of the ectoderm of the ovum. This become united with the uterine epithelium and later with the other tissue of the lips of the aperture of entrance For it the term operculum decidum

1 suggested

3 The recognition of the apparatus had led to the discovery that in the human ovum there is a polar structure similar to that seen in the guinea pig and hedgehog The ovum is therefore described as having an entering or implantation pole and an adhering or closing pole. This polarity determines the polition of the embryonic rudiment in the blastocyst and the situation of the placenta. The operculum differs from the traeger of the rodent in taking no part in the formation of the placenta

The operculum usually becomes detached from the blastoryst and degenerates when its function of closing the aperture of entrance and temporarily fixing the ovum have been fulfilled When the separ ation occurs an internal shield of fibrin formed by thrombosis in the implantation cavity closes the aperture of entrance from within In some cases the oper ulum remains attached to the blastocyst and an external closing coagulum (Genebspilz)

max form over it

5 The conception (1908) that there are two generations of trophoblast a primitive or implan tation trophoblast and a secondary or attaching or placental trophoblast is found to be justified

6 Much of the syncytial part of the primitive trophoblast disappears when its functions of form ing the implantation cavity and opening the ma

ternal vessels have been discharged

7 The rest of it and the primitive cy totrophoblast develop into the placental trophoblast and in the first place are concerned with the attachment of the o 'um and the formation of the intervillous space and proper channels between it and the maternal circulation It becomes the chononic epithelium

8 The original Teacher Bryce ovum found to demonstrate the relations of the maternal blood to the ovum prior to the formation of the intervillous space The blood enters the implanta tion cavity as hæmorrhages from minute vessels of the endometrium and leaves it by the large venous sinus which is so conspicuous an object underneath mo t human ova This sinus must be regarded as a normal feature f the surroundings of the young human ovum Abortion in the case of T B : appears to have been due to rupture of the sinus followed by thrombosis which arrested the circula tion through the implantation cavity

o In these early arrangements the luman orum exhibits fundamental differences from the ovum of any other species the early development of which is known Part R Bille estay MD

Gesner W. The Baden Eclampala Stati fies f. r. 1921 in the I light of a Functional Treatment of I clampala (1) e Lauset. Fit mpolestat it k for da. J. hr. 1921 in L. h. n. r. f. akdon! I kl mp. bed. du. gr. 2. r. f. dl f. f. y. k. 1924.

The author teports the results of the stati ties on etlang a from Balen for a proto to 1913. Acrost ing to these the number of births in B iten has notice act 19 only a per cent a shereas the nucl not of e lampata has increased by a per cent. It is evilent therefore that most of the objective and have not applied per pl bacticall, the te chings of the liettee extrements of the Natural Was.

Get ner mentions the therapeutic value f pro phylactic carly delivery and artif call rupture of the m mbranes and calls attention to the fact that kollman recommen! I venesction and reported Rood results from it before it was advocated by

Engelmann and Zw ifel

In Cesner sommon the favorable effect of chlorom anxel teas is due only to the reduction of the inter addom and pressure. As proof he cites the statistics of Wester Wire according to with the number of cases of eclampias increases with the interesse in the tension of the addominal wall up to the eighth month and then again decrease. From though anxel these is minimized to the cite that though anxel these is minimized to test in a classification of eclamps a nel favor Il traton Ilicks version. Metreuty if it to be a wild in order not to increase of the cite of the

The autl or helieves that celains as is of mechanication and orient. Actine treatment if we emptising of the uterus he c. Il. the functional their py of exhipment is the control or the standard or the stand

Croen O The Result of the Treatment of Lelampsia in the Obstetrical Di 1 ion of the Ceneral Hospital in Malmon (Royal i & t l klampsicheh diu g a f de Geb tishili h Abi dia g i s Algen p kr kenh uses i Malmoe) S ika keka lid g # 93 22 769

In the clinic of which the author is the director the treatment of eclimpisa during the last wake years has been not entirely active nor entirely at p crant. All undelivered women have been at once delivered but after deliver, e pectant methods of treatment have been us if namely bollation to

free administration of narcours and venesce on Venesce toon has been done twenty times but always in the pureprenum and in cases in which the attacks continued. Lumbar puncture has been done sintentures but while it had no inpurious effects it was of no distinct benefit. Decapulation of the kidner has been done ture but in both cases the soman ded

The author discusses only cases showing the typical c nyuline attacks of celampia. In 1915 he collected seventy nine cases with ele in deaths a mortal ty of 13 9 per tent. Since then he has treat elffly it cases more with five deaths a mortal ty of 8 9 per cent. In all there were 12 cases with

statem deaths a mortal ty of 17 8 per cent. In the forty five cases in which the eclampos began during pregnancy there were six maternal leaths a mortality of 13.3 per cent. Of the forty five children in these cases seventeen (37 7 per cent)

died twenty four eightel less than 2 000 gm.

In the twenty-eight eases of eelamps occurring
luring the first stage of labor five of the mothers
died a mortality of 25 per cent. Of the twent four
children four (16 6 per cent) died.

In the cases in which the eclampia begand may the second stage of labor their was only one may tend led a mortality of 3 per cent at 160 the thirts two children only three (03 per cent) del To of the children who ded—one a macer atech anener halus—weighted lets than 2 000 mm.

In the forty cases in which the ectar pus followed del very four (100 per cent) of the women ded and of the f rts four children three (68 per cert) ded

of the f rev four children thr

In the cle on cases of the first tw groups which were fast I to the mother ded or was effected by all Jonnial creaters section in 10 s.t. by section section in no with the Goregan none a did by versi n and extraction in one. The last chief chief the creater of the section of the control of

In the entire series of this is, the crosses of eclarys appearing pers in to doft, or, may reoperations were performed in forty—signal set in in seem them with one leath an I constraint set on in 1 entire the set of the

Immediately after the n et of ectarrip to the woman; isolated in a darken d room veneset on its done and morphine; daministered. The re list of expectant tre tment are then sat hed. If the attacks ub ide and no furthe d to bing simplems apper the a reg rided as I ght and the

expectant treatment is continued. If the attacks do not subside and other severe eclamptic symptoms appear such as epistans and eye symptoms active treatment is instituted and the advisability of crearen section is considered.

In the cases reviewed the uncorrected infant more titly (145 cases with twent) seven deaths) was 186 per cent and the corrected mortality (170 cases with more deaths one macerated anencephalus and twenty five children weighing less than 2 own 200 has a per cent Five cases of erlampains were grown as the contract of the protein of the protein of the protein contact in three cases the collegions was recurrent and uno one of these was fattal

The author discusses all of the results of treatment dung pre-eclamptic toximis the prehiminary stage of eclampsia. As is well known Essen Moeller has advocated so called active prophylaxis by which be means the induction of labor by active intervention during the stage of toximia which precedes the

eclampera

Grane does not share Essen Moellers enthu usum regarding active prophjanas. In thirt me had a sasson special active prophjanas in the mere of his cases of pre eclampic towenus there were too reaths. There occurred before an eclampic attack but at autops the 15 pical and very marked changes of celampic attack but at autops the 15 pical and very marked changes of celampic towers as the precision of the property o

In Eam Moellers cases there were three deaths but three strangels were reclained with the debts due to clampas. Of forty four children (fixe pain of tans) tacks were born dead or died moellers for a consider but the description of the tracks weighted less than 2000 gm and seen less than 1000 gm Easten less than 1000 gm and seen less than 1000 gm Easten less than 1000 gm and seen less than 1000 gm and the seen less than 1000 gm and

Groené designates as cases of pre-eclamptic toxenia only those with albumnuma a high blood pressure headache vomiting pain in the epigas thum eve symptoms and general restlessness or a ath.

The author mentions also cases in hich eclamps a begins with a very acute onset and in which no prophylans is of value

In a table is given unmany of all as ere case of taxima of pregnancy observed in the course f a years. In it good briths there ere eighty a cases of clampas thirty innecess of pre eclampte towarms fort; even cases of premi ture separation of the placenta and 644 nephropathic cases with some than 1 per cent of albumin in the unner. In \$1,943 or

the years of the war from 1917 to 1918 when food
as rationed in Swed n th re wa a distinct
derrease in the frequency of the to xml s of
p cgnain.

5 1 (G)

LABOR AND ITS COMPLICATIONS

Murray E F Cæsarean Section B # M J 1924

This article is based on 116 casarean sections the majority of which were performed to anticipate or relieve obstruction of labor due to pelvic contraction and the others for less common indications. The operation was the classical casarean section.

In the seventy five cases the ratio of po terior to anterior placenta was 4 3 but in patients who had had a previous section this ratio was 31. The risk of rupture of an old car was found to be negli-

gible
A large number of the patients were undersized.

and rachitic and in the primiparie an abdominal crammation alone was usually sufficient to reveal a contracted pelvi. In some cases an anaesthetic was given and an attempt made to determine whether the head would enter the pelvis. Contraction at the outlet is less common but more dangerous and often not recognized until the head is engaged. In obstructed labor the perstoneal fluid was some

an obstacted unour me personear unit was some times increased in amount. In some cases Bandl sing was present and required incision the lower uternie segment was very thin and the upper segment in a state of tonic contraction. In later mem branes usually mean that the child is safe for the time being. As a rule the lower uternie segment and certa were imped by the head on the pelivic him in late cases with obvious infection the chorion was yellow and stripped off with difficulty.

Prolonged labor much interference and the presence of Bandl's ring constitute strong presunce to the configuration of affection. A discharge developing discounting labor after rupture of the membranes and associated with soreness and redness of the vulva is almost certain proof. Offensive higher from the uterine cavity giving a positive culture is positive under its positive under its positive under the configuration.

proof of infection

In all of forty three cases shich were operated upon early in labor before or soon after input the membranes the mothers and infants serviced. All of the women who dried in the other cases recent two who succumbed under anaesthesia were greatly exhausted and definitely infected. There were ten maternal and twelve fetal deaths All but two of the infants that dred were dead at the time of operation. Four of the mothers of dead infants consistent of the contract of the successful and th

Besides cases of contracted pelvis the operation was done also in cases of placenta prævia prolapse of the cord occipat posterior position pendulous abdomen with marked Pott s disease tumor cervical and variousl stenosis and eclampsia.

PAUL R BILLI G LEY M D

PUERPERIUM AND ITS COMPLICATIONS

Franke U: Puerparal Statistics for Twenty Two lears (22 Jahre Wochenbett St. tt. tk) 1 ch f Gymach 1023 cx 1 t. t

The statistics here reported are the reguleral observation on the course of the purpersum in the prostancial School for Albertea in Reduction during the period from 1900 to 1923. They may be period from 1900 to 1923. They for more intuition of the justificial statistics of this more intuition of the justificial statistics of this more intuition of the justificial statistics of this more intuition. The form 1900 to 1900 the period by Bumm. Since for thirty six years, the body lemmerature has transarably be a taken by rectum in this in titution the material is uniform and durit the statistical commission.

A retpenum in which the temperature rose even one on 38 in degrees C. rose was recorded as showing fever. La est in which it rose once to 300 offerers C. and was recent to a sight degree for at degree C. or over several times and those in which there was an evening temperature between 35 o and 300 fegrees C. for from eight to ten days were cla-sed as showing market lever. The statistics include only cases of spontaneous borth and the statistics include only cases of spontaneous borth expensed suttern thereth in of the perincum and penned suttern.

In the group of cases in which internal examinations were made it was found that the curves of light and marked for exemined at a constant level throughout the entire period and none of the new methods it disinfection had any its orable influence on the course of the puerpenum

The disinfectants u d were lysol bight ride of mercury and crewid soap. Since 1993 the directions for disinfection of the hands given in the Prus and Textbook for Midwi en have been followed. In 1905, 70 per cent alcohol was a lifed to both the sufficient of the property of the propert

For the sake of experiment internal examinations are made allo with non-disinfected hands. The current remained unchanged. While this suggests that distinfection is uninversary, there were small isolated epidemics that could not be accounted for except by the assumption that the examining hand was the carrier of the infection.

In the \$50, ca.es not examine I there was a light lever in 29 per cent and mix I fever in 31 per cent. Herefore the incidence of lever was less than in the cases to which examinations were me I be difference in the includence of se ere fever was particularly market. This Is in lactes that when the examining h indexented programs be ctens with which the patient is not able to ep successfully from the beginning the r sulting fever will be secret.

In the preparation I the prig int woman the genitalia we is eted by arrou methols with or without subsequint disingleting time from the results were never so strakingly different that positive conclusions could be driving arriding the worth of any particular procedur.

Putpresi women with laceration of the penneum have a consolerably higher morbility than the without laceration. In penneurophy by Bauman schaniper him was a never allowed to perestrict the vagina case with a surery and season of the vagina case with a lateral was a lateral was a lateral was a lateral was a lateral was a lateral was a lateral was a lateral was a lateral was a basen to very a light during the purpose and the lateral was a lateral was a besen to very a light during the purpose per cent it was marked. Therefore feere during lateral was marked. Therefore feere during lateral was marked. Therefore feere during lateral was marked. Therefore feere during lateral was first lateral was marked. Therefore feere during lateral was first lateral was marked. Therefore feere during lateral was first lateral was marked. Therefore feere during lateral was first lateral was marked. Therefore feere during lateral was marked. Therefore feered was first lateral was marked. Therefore feered was first lateral was marked. Therefore feered was marked. Therefore feered was marked. Therefore feered was marked therefore feered was marked. Therefore feered was marked therefore feered was marked. Therefore feered was marked therefore feered was marked therefore feered was marked. Therefore feered was marked the

Miller C. J The Treatment of Puerperal Infec-

Miller reviews the results obtained in 40 case of purpersal infection including abortions and ris carriages of all types cases in which the pain it was a livered before h x admission to the ho patal and cases from the obtestical service. In every ustane treatment was besen on the principle of absolute non interference unless blicking demanted immediate inters in a When it was necessary to if ade the casity of the uterus interference was delayed until the aquet up implies that also bled and justicers.

was limited to the simple opening of pus collections There were forty nine cases of frank septicam a with tw ! death five of these patie to wite a limitted morebunda Id ed within the first twenty four hours I our of the other cases were complicated by pneumonts one by a puerperal psychosis a done by a postpartal humorrhag on the seventeenth day an I two severe hamorrhages before adm soon In another instance death was due to typhoid fever complicating a spontaneous abortion Sevents four patients level ped well marked local I s ns su h as pelvic abscesses p rametritis periton is throm bophlebitis etc. A large percentage hall symptoms which persisted over long periods of time perature elevations persisting f r from fift) to se enty five lays were not uncomm n The ted ous an't stormy course of the infection was often a temptation to resort to rade al measures but the end results amply justified the police I waits &

The total number of deaths including the colpatients admitted mor bund was suit on a mortality of 3: pr cent. Excluding the deaths of p tients admitted mortbund the m-raility s 26 per cent. Miller 1s conficient that if the old rad call methods h d been used the death rate w uld have been higher RALAN S CO. M.D.

B fley If The Serum Tre tm nt of Puerperal

The preparation of the serum to be used in the treatm in of puerperal seps a must be effect from a serological standpoint. This means that the animals us d must be i jected with all the kno in procurable strains of hamoly tie streptococci and must be blied to obtain the immune serum at a time

when the antigen is absent. The supply must be kept properly and must not be too old. While apparently there sera can be re activated as show in by Weaver and Timecliff especially by the addition of human serum there is nevertheless a point at which reactivation crases. The date placed on the label should be a guarantee that the serum is active or may be re activated up to that day.

Desensitization must be carried out before the administration of the serum if there is the slightest doubt that the result of the dermal test is negative When these precautions are taken the serum may be considered comparatively harmless for although serum sickness appears in nearly three fourths of cases this of itself so far as is known never causes death. The usual signs are urticaria joint swel ling and occasionally some ordema of the throat occurring either immediately after the injection or later. One of the author's patients developed a condition that simulated anaphylactic shock but in this case the serum was admini tered by dilution and the patient received in all 1 000 c cm of the solution Practical experience has shown that dilution is not the best way of administering the dose it is better to inject the serum very slowly without dilution

In all of the author's cases the dosage might be termed moderate. The amount was limited to so cm in wenty four hours and hen serum schees appeared no intheir injections ver gg en If this dose is repeated every day for three or four days. Aufficient quantity may b given before the serum schees appears. Bailey belie es it feasible to give force than one dose in trently four hours but he has not done so. If the temperature rises in the has not done so. If the temperature rises in the postpartum period and remains above 103 degrees I field; gift hours the do e of 100 c cm should be site on without waiting for the result of the cultures.

As parametritis occurred erv r gularly in Bales 5 few cases it appeared that the serum had a tenden.) t localize the disea e. The erum treat ment in the first days of the fe er should be followed

by the most careful treatment of the parametritis or the inflammation of the pelvic cellular tissues

The mortality in the six cases with positive initial unterine cultures of streptococcus harmoly ticus was 16 6 per cent. In the second group—not including the case of the patient who went home with a marked parametriss against advice on the fir day, that he temperature fiell and later returned to the gene cological ward where she discliminated the mortality was access in all the mortality was as 15 per cent. If the death rate 1 uncorrected the mortality for the entire group was 11 4 per cent.

The only published statistics the author has been able to find regarding the mortality in recent cases in New Nork were given in an article by Rosensohn who analyzed the bacterisma occurring in the Lying In Hospital from 10 o to 1022. In this group there were eight proved cases of streptococcus harmoly icus with a mortality of 62 5 per cent. There were there cases of non harmolities streptococcus and two with the streptococcus combined with bacillus colt. The mortality in all of these streptococcus cases including the two with mixed infections was 63 5 per cent.

Williams obtained a cure by the administration of serum in four cases of postabortal hamolytic streptococcamia with positive blood cultures

In this article Bailey reports fourteen cases of acute purporal fever set of which had positive order. The administration of polyvitent and streptococcus serum as followed meleven cases by the subsections of the temperature and gradual recovery 1 of the temperature and gradual recovery corrected mortality was \$14\$ per cent and the corrected mortality ass \$14\$ per cent and the corrected mortality 153 apr cent.

In conclusion the author states that the admin istration of polyvalent antistreptococcus serum and r the conditions outlined appears to be comparatively harmless and of considerable value in the treatment of puerperal seeps

IDIA D L COR ELL, M D

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Willock! C B and Crone S J: Experimental Observations on the Adrenals and the Chro maffin System B! Joh II pt x II p B it

With the hope of producing the semptoms of Midon a livease the authors attempted to cause adrenal insufficency in animals by removing sarying amounts of a frenal tissue. The resperiments showed that total extraction doubt within a few lives and cats always resulted in death within a few lives and cats always resulted in death within a few lives and cats always resulted in death within a few to one (fith of the entire cortical area was left the animal survivide without symptoms and suthout aboving any manifestations of A thiston's livestee This work immostrates that it is the corter and not the medulia of the adrenal which is necessary been made by other workers. The sam fin lag has been made by other workers. The sam fin lag has

The injection of destructive chemi als or toxic substances lirectly into the gland and the ligation of the adrenal series to produce a gradual insuff ciency failed to have the desired effect

To secure a m re reliable method of establish no a lemal lasuff energy and in the hope of producing in d gra in picture resembling that of Add son a disease the authors r moved various amounts of address tissue and j lante l ra lumn in the remaining portion. As a simptoms of Add is not a desear resulted but the class of the author of the author of the author of the address of th

In a furth r study of the abdommal chromaff a body, the authors found that in two animal the total r moval of the chromatin body and the medul is of the adrenals caused no symptoms. In dops dying as the result of total distruction of the adrenal cortex a marked terminal fall in the blood pressure and temperature was observed.

H L St FORD MD

Rein Fr Functional Di gno i of th kidney in Surgery (i) f kij lie \ d g ostik n d Chirurg) i k f kl Ch 9 J 359

The work perfermed by the kidney under physiological and pathological of a lit ins can be under stood and estimated correctly only when the exchang between the blood and issues is taken into consideration. On this base, Rue endea ors temptricip diagnoss of real function.

The maintenance of iso onto (the quent tatte constancy of the ions composing the salts in the blood serum and urner) and the maintenance of isotonia (regulation of osmotic pressure) require an intact kill by the mot del cate etroy filter

of osmotically active ions as well as of excess acids in the blood

According to the view g nerally accepted tellintonna can be restored only by an exchange be ten the til sues and the blood and for ever, substance in the blood serum which may be dem natrated in the urine there is a definite concentration at which secretion by the kidney's begins. Because of the sen int it of the kidney, a demangements of the sen int it of the kidney a demangement of votonia and isosonia must be reflected in the renal votonia and isosonia must be reflected in the renal kidney itself must exert a half defice on the course of this recollating action on

As a measure of the capability of the kiney to r spond to a change in the acid base ratio in the blood. Rehn uses the hylrogen ion concentration of the urine. Lo fer the influence of repail disca-

this response may change

To test renal function Rehn raised the acid content of the Hood artificially by administering hidrochloric acid or increased the alkali content by injecturing intravenously a 4 per cert solution of bicarbonate of sola. The response of the health's kidney to this Jertagement was evid need by a change in the proport in of acid to base in the change in the proport in of acid to base in the following the proportion of the proportion of the solutions and the solutions are presented to assist and the proportion of the solution n the morning before any food had been taken the patient was given to thank 300 e.c.m of water containing so dropps of d latte hidrochloric acid and the latter of the source of the source of the source of the source of the source of the write from each aide wa determ need by the Vichaelon source of the source of the write from each aide was determ need by the Vichaelon so the source of the source of the write from the carbonate were injected intra mounts and beginning three minutes after the injection the intervals for seven minutes or longer according to circumstances.

From tests made in 150 cases. Rehn distinguished five types of secretory disturbances in which the act to ratkali secretion was chinged.

Definite facts regarding topical diagno is etc to or red 1 anim! experiments. In tubular ephritis caused by bichloride of mercury there is in the first stage a diagneem at in the secretion of ord this ser upon falls it remail the arms. In the sec distage the capacity to exerte acid is negative the unin 1 alkalium in dihe administration of

nd o alkalı causes bitle anatun In glomerular nephritis (from Habu poiso), the capacity for secretin in the first stage; good for cid but negati e f alkalı In the second stige the reaction of the urin in nut'l and the administration of void or lik li cause ery slight variaties toward an acd or alkalı ne reaction. In the third stag there is a

stiffening of the kidney the secretion of acid is dis turbed and the secretion of alkali and the effect of sodium bicarbonate are negative Schmidt (G)

Lee Brown R k The Circulatory Changes in Progressi elijdronephrosis J Lr l 1024 u 1

The author shows that the changes in hydrone phross are primarily those of an ischemia and that the glomerular and tubular changes are secondary to and the result of this ischemia

The method followed in the sense of experiments reviewed consisted in 1 ving the uriter in a series of rabbits killing the animals after varying periods of rabbits killing the animals after varying periods of time and their examining the kildneys microsoftically after progressive grades of hydronephrosis had been produced. To demonstrate the gross vascular changes an arterial injection of barium sulphate was made and a nontigenogram then taken The microscopic changes were demonstrated by an antivarenous injection of Berlin bile at 200 mm pressure which clearly defined even the finest replalares.

The changes in the circulation in hy fronephrosis are both immediate and delayed. First, there is an engorgement of the entire kidney the hyperæmia being due to its continued secretion into a closed sac The tension in the renal polvis continues to increase until this tension is equal to the secretory p essure of the kidney The destruction of the tubules and glomeruli 1 gradual Some secretion goes on in some of the glomeruli for a long time As the degree of hydronephrosis progresses there is a definite increase in the pressure from the pelvis toward the kidney capsule v hich compre ses all of the kidney parenchyma and tends to flatten out the vessels and tubules \s the process becomes more advanced the parenchyma becomes atrophied until only a shell remains C D Horas M D

Coenen II and Silberberg M. Petirenal Hy dronephrosis. Its Origin and Relation to Petirenal Hamatoma (Dep n: Hydoc phoc h & tatch g d Betch g um per te alen H cm tom) B t z kl Ck 923 xx 374

The authors report a case of penrenal hydrone phous (the eighth in the lite ature) in which the tood tion was bilateral and was associated with a time hydronephrosis. The operative autopsy and histological indigings (the patient ded from carriage and the biladder) are described in detail and should be read in the original article.

The vascral wall of the per rend cyst was found to be nothing that of the per rend cyst was found to be nothing that the markethy g amulating and hamorrhagically an interest cyst was evaluated from the sim harty in structure the content of intact fibers and the transition of the outer into the inner layer that both was the cyst very part of one and the same content of the cyst very part of one and the same comparate the profestrat gibrou capsule of the harty was therefore the product of a part. The cyst was therefore the product of a part.

chronic serous inflammation of the fibrous capsule of the kidney—a serous pennephritis As the kidney itself was only slightly changed by intersitual nephritis the serous pennephritis must be recognized as a distinct entity

Normally the renal capsule is an independent structure with its own blood supply and lymph tracts Therefore from the anatomical standpoint also the serous perinephritis must be considered a distinct condition and the cause of the perirenal hy fromephrosis \ thesion of the tunica fibrosa to the renal surface in the absence of inflammatory changes in the kidney which is so often observed at autonsy the authors believe is the terminal stage of an old permephritis a ithout much exudate and with no demonstrable infection of the exudate This fin ling is comparable to adhesion of the leaves of the pleura in cases in which the lungs appear normal Possibly the only indications of the serous perinephritis were an unexplained lumbago and symptoms in the region of the kidney

The perirenal hematoma and the hemorrhage into the kidney bed may be explained in the same vay. It is possible all othat the perirenal hydrone phro is may have developed from an encapsulated perirenal hematoma the contents of which vere resorted as the result of transaudation of the serious fluid

When the renal cortex becomes permeated by small abscesses a pernephritue abscess develops a change analogous to that v hich occurs in suppura tive pleuri v and memigitis. Interstitual nephriti favors the di appearance of the inflammatory oc dema in the fibrous capsule and a similar influence must be attributed also to an associated hydrone phro is of the posterior part of the renal pelvis which was found in four of the eight cases reported which was found in four of the eight cases reported

The last cause of perirenal hydronephrosis to be considered is bacterial toxins. The heretofore gener ally accepted nephrectomy may usually be avoided

by opening and draining the cystic sac

The diagnosis should be made when hydrone phro is of the pelvis is assumed the findings of uretiral catheterazion do not agree and the chemical composition of the fluid does not correspond to that of the urine excreted

Cunningham J H and Graves R C Renat Infections S g Gyn c & Obst 1924 x 11 39

Experimental and chincal evidence point to the hamalogenous origin of trail infection but ascending infection is often the only replants for studied in infection is often the only replants for molevment. There are three types of stocking infection (1 extension upward along the lymphatics in the ureteral wall (2) extension along the material lumen against the column of urine are the original experimental properties of the column of the action of time are the force of bladder regurging carried upward by the force of bladder regurging. The authors of sex is the last mentioned type.

The regurgitation of vesical contents has been proved experimentally. When there is high intra vesical pressure the frequency of ureteral peristalsis

is increased but dilatation and ineffective emplying result. With overd similar and fatigue of the blatter the expulsive waves finally creament to frequentiate the blatter pressure is manifect directly to the renal pelvis. When the untern have been disturbed in pressions operations, the degree of unternal activity is of sight importance in the powduction of blatter regue tation. Reverse perstallish of the unterplays ropart. Regueration has been proved rorentigenessopically.

The the d'actor in the production of regurgatation les in the blis floer as the redius never occur make the veckeal musculature has an active tone. The tonic contraction of the blid feel wall against the die tending fluid especially when there is obstruction of the visual next period of the visual next period to the sufficiently to permit regurgatation. Renal infect in following appraisal cap to latectomy may be fue to utrieral regurgatation and I temporary blocking of an indived ing catheter during blocking of an indived ing catheter during blocking of the individual of the contraction of the production of the contraction of the co

Renal infection varies in degree from multiprelates or pselenephilits to more or less kilory detruction. The differentiation between the harmatogenous and ascen ling infections is difficult. The absence of vesical neck obstruction and of spatial following suggests a harmatogenous or gan. Neature thood cultisers do not precluit to the blood routs as the culture may be post if eduning a rigor. The as the culture may be post if eduning a rigor to the control of the programs of the programs of the programs could not be a supplied to the programs of the programs.

The pathology of acute undateral hematogenous renal infection differs from that of acute bilateral infection the latter being part of a septicamia or pyamia whereas the former is due to minute emboli

in the terminal ses els of the kidney

The renal pathology of blood stream infections is five type () abecess formation and (2) diffuse inflammation without destruction of tisse. In the former there are dissen nated small separate foot of suppuration or miliary at Secs es which may collarge and coalesce repulse the kidney capsule and if may perincipate the sound of the program corect staphylogocet and the streptorection by the streptorection of the stre

The clinical course and treatment differ in these too forms of d esses. When a kidney shows focal absets et and torremin net hrectory is necessary hereas in the diffuse non supparative formoid sease less ra local measures are in leated. The former conducton must be differentiate! From seute grill bid Ider disease ruptured duoder 1 or gastine ulcer and appendicties.

The severe cases require implication. The militaria infection usually a en are amenable to treat ment by forced fluids; right antisepties and free catharias. In the morror antisepties chance case of a general properties of the case of

Dyke S. C. and Visybury B. C. On the Attempted Production of an Ascending Renal Infection in Rubbits B t J S. L. 1914 X, 100

The authors report the results of experiments on rabbits in which they attempted to produce an ascent g infection of (t) the ureters and (s) the kilneys. The organism used was the starbylococ

In the attempt to cause infection of the urrein from the Halder the first step was to produce a Cristius. Simple injection of an emulsion of the organisms in broth did not suffer. After a small of sarrois methods a small piece of soft Turkey sport impremanted with 10 depon of the emulsion of the organisms in broth was introduced into the openion belt let an it the bladder closed to suture. In every limitance exhibit seventied. In repeated expension of the organisms of the control of the united of the urreins or k dong; could be dimentioned in the urreins or k dong; could be

Therefore the conclusion was drawn that whatever my be the case as to the passage of unne from the bladder into the urters the production of infection in this way does not occur readily if it occurs

and the experiments to cause infect in of the holters from the urtiers the urtier was exposed through an abdomnail incision and I gated at the juncture I six middle and lower thirds. Through a cannul introduced into the proximal urtier as mulss on of the organisms was then infected into its lum in Framinai in of the kidney at vanious internais showed the pelves and uretice dishred internais showed the pelves and uretice dishred piss but it was not possible to find the protier of the internation into the tubules of the lifers.

In a treptition of these experiments in which as upon one of carmine was emply set it was possible to study the effects of congrepenods. The results were the same. There was no endence the granules reached the interior of the hidney by same from the pel's up the I must of the tubules. In two experiments: which Ind a nik was used the find nay were identify.

In conclusion the authors state that at least under tepromocals cond it is the unreterior cell question effects an insupersable bar i the passage of infection from the bladder quiwant. What it was possible to cause unfection of the k dn y by d c c unfection of the lourne of the unreter state of the lourne of the unreter state of infection registers, the publishment of the renal sinus into the intesting all substance of the kidney.

II A FOWLER M.D

Aroni A Acute Metastatic Abscesses of the Kidney (Contributo allo studio degli ascess metastat ca acute del re e) Arch tal d chr 1921 tt 266

Avones patient was a girl 15 years of age who had a history of furunculosi As the findings of ex amination suggested a suppurative affection of the kidney nephrectomy was done. The removed kidnes was enlarged especially at its lower pole Its surface was smooth but showed several knobs On section this part was found to be almost entirely necrotic Bacteriological examination revealed the presence of staphylococci and streptococci macroscopic and bacteriological examinations con firmed the diagnosis of renal abscess. At one point histological examination showed a necrotic harmor thagic focus with partial disappearance of the renal parenchyma. It is probable that this was the point at which a my cotic embolus became lodged and the toxin began its destructive process

In Avons opinion renal abscess is more common than is generally believed. The process remains silent a long time and often when operation is performed it has reached the capsule and has become

pararenai

This type of lesson must not be confused with absecs due to supportative nephritis. Both arise from infection but they differ in their evolution pathonesses and pathological antionity. The absects pathological antionity The absect and may be also be a support of the support of the suptionity of the support of the support of the property of the support of the support of the pathological support of the support of the support of the support of the support of the support of the pathological support of the sup

The metastatic hadney abscess may result from an infective forous in the intestimes bones skin or other structures. A preceding infective disease or a sascoated desease such as nephrolithiasis must be considered as a predisposing cause. When the bettera treutlating in the blood become arrested in the glomeruls the glomeruls become the center of the abscess. In lare cases the bacteria armay reach

the unniferous tubules

The abscess may open into the capsule the kidney pelvis of the ureter of it may remain encapsulated and undergo serous or caseous transformation in the latter event it may become cured if it is not lare.

When such an abscess is recognized early sur real treatment is indicated. If the abscess is cir cunscribed nephrotomy is sufficient but if the suppuration is diffuse nephrectomy is indicated if the conditions for it are satisfactory.

W A BRENNAN

Untra Ureteral Manipulations
S th M J 1924 x 1 500

When the presence of a ureteral stone is definitely stablished the possibility of its descent should be detirmined by intra ureter 1 manipulations rather than by operation. Usually stones beyond the renal privas can be forced to descend into the bladder The exceptions are very large stones those em bedded in the ureteral wall and those covered with

The attempts at dislodement should be con tipued as long as the patient shows no ill effects and the Lidnes function is not markedly diminished An attempt should be made to pass the ureteral catheter beyond the stone If this fails a 2 per cent solution of novocame should be injected and a second catheter passed alongside the first or the latter withdrawn and a larger catheter or bourse introduced When the instrument has been passed beyond the calculus it may be left in place for from twents four to forty eight hours. The author has devised a flexible shaft with a stone grasping por tion and a filiform attachment which can be used effectively in removing stones from the ureter by merely loosening them or changing their position This instrument should not be employed for stone extraction Bugbee's ureteral fulguration electrode is also good Lewis alligator forceps and Bugbee's cystoscopic scissors may be used for stones lodged at the intravesical portion of the ureter which cannot pas spontaneously
Ureteral stricture may be dilated with flexible

Ureteral stricture may be dilated with flexible boughes Stricture at the ureteral meature is treated by fulguration and slitting with cystoscopic scissors

followed by dilatation with bourses

In unterography the catheter should be with drawn nearly, to the untereal orifice and the injection of the pyelographic medium should be made slow ly as the catheter is gradually withdrawn. The catheter should fit singly or it may be armed near its tip with a wax bulb to prevent the escape of the pyelographic medium. LOWIS NEWERT M D

BLADDER URETHRA AND PENIS

Ballenger E G and Elder O F The Diagnos s and Treatment of Certain Conditions of the Vesical Neck So th M J 10 4 11 506

Abnormalities of the verumontanum are frequently unrecognized because urnary findings such as pus blood casts albumn etc are aborn. The symptoms are often misleading. The symptoms are often misleading. The jurianzy such as undue frequency or pain at the end of urnation or serual such as premature emissions and impotence or they may consist of nervousness pain in the back or thighs and a deep tiching or discomfort at the bladder neck etc. There is usually a listory of ungraptized sexual design.

Four points in the diagnosis and treatment are emphasized

2 The use of a Swinburne endoscope with rounded edges and no obturator

2 The addition of 12 minims of 1 1 000 adrenalin chloride solution of the local anasthetic solution injected through an insulator to lessen the pain of endoscopic treatment. This should be used only after the diagnosis has been established A 1 per cent solution of novocaine or alipn may be injected not the authorior urchira and gently milked into the national control of the authorior urchira and gently milked into the

deep urethra the meatus being clamped. A Bremer mann instillator may then be used to carry the solution into the deep urethra.

t The cure of bacterioria not a sociate I with a definite Icsion in the genito-urinary tract by the application of a concentrated sil r nitrate solution to the vertimontanium through the en loscope

4 The demonstration of med an lobe enlargement of the prostate and so-called prostate snouts by cornegenography and it tention if the bill fee with air

GENITAL DRGANS

Sci warz. O. A. and Simkow. A.: The Results of Constructual cand Operativ. Treatment of Dicases of the Seminal Sesicles (L. le. 1.); fordry k. er ati. und operat. Di. R. g. dr. S. mentla en stranku gen). Zi. k. di. (A. 10. t. iv. 150.

Duting the last ten years the literature on the surgical treatm in of liveases of the seminal vest sides has greatly incressed. In America ediperally gonorin to a of these organs has received con-literable study. In Cemany, although Voelsker's work must be con-literable fundiamental, this subject his been greatly neglected.

The authors (1st describe the anatomy and physiology of the seminal veucles. In cases of inflamm tion efficient treatment is hin level by their complexity of their co

reinfiery 1 cited in the seminal vesicles from the urethra or 13 way of the blood streum. Its transmigration through the intestinal wall has not been

pt vel

The organisms are gonococci in 80 per cent if the cases staphylococci in 10 per cent and pseulo-diphtheria bacilli an i colon bacilli in 10 per cent In 50 per cent of the cases of gon rihera a cat rih

is found. Vehr nie pus discharge is rare. Other tathologic conditt ns are empyema from obliter ation of the efferent ducts. I lerosi with atrophy and perivedebilits.

The symptoms and signs include pain in the perneum blood and pu in the ejaculate a dicharge cystiti pollakiura bacteriura impotence en didymitis general malaise (ep is rheumatism).

neurasthena and lumbago
In the examination palpation should be done
while the bladder is full According to I, given the
resides are all and according to I, given the
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In the treatment a distinction must be made between acute and chrone inflammation. In the former rest warmth and narcotics are indicated and massage is contra indicated. Operation should be performed only after these mea ares have failed In thronic cases there are three pos ibil ues (t) conservati e massage (2) er loscopia sound ng and injections from the urethra and (1) operat on con si ting of direct treatment such as expos re of the sesseles or indirect treatment from the vas deferens Lesiculotomy is in licated by sympt ms referred to the urethra or genitalia p ythic d turbances and rheumator i pain Care is necessary in the choice of cases. Vesiculectoms is usually performed in case of tul erculosis or tum r (myoma sarcoma ca cinoma) It i important that the di case be limited which is a ldom the case Voelsker classifies oper ative procedures as follows

s Operation from above (a) suprapubic (b) in

Departum by the tran rectal route. This has been abandoned in favor of
 Operation from below (a) periodal (b) ischo-

rectal
The method of those is operation from below by
the ischiorcetal route
R regime (2)

Roggiero O Experimental Research n the Effects of Decordication of the Testicle (R ribe sper m nt ' ugli fit id lia decorazi ne d I testi of) drek u I d ek 10 4 kr

Loggiero summanzes the results of his expen

I lartial or total decortication of the te tel in the rabbit caus s lesions which are very milar except in their degree and extent.

a Such lesions affect the semin ferous epithelium and the connective and the interstitial cells. They are always more marked in the central parts than

in the peripheral parts
3. The changes in the serict all epithelium conit in dising ration of the physiological fit and gloogen and the progressive disappearance of the investing epithelium. In every case apermato genesis is arrested.

4 The interstitial cells he more resi tante than the seminil rous epithelium but some hat less

than the seminal rous epithenium our some that its than the intertubular c nnective issue 5. The final result of decortication e pecially if v s total is fibrous atroph of the testicle in its

epi ti ly mal portion due to the abrupt interrupt on of the vascular or nervous connections

H A BRE NA

Bumpus H C Jr Radium in the Treatment of Benign Hypertrophy of the Prost te J l el 924 81 61

The marked reduct on in the size of mal gnant prostate glands following thorough rad atton ea ly led to the hope that n equal reduction might be produced in enlarged bengin prostates a d that the symptoms of obstruction and the residual urine

would then d sappear

Eleven patients in the Mayo Clinic have been treated by radiation. As the first patient was treated in January 1919 and the last in April 1922 none has been observed less than a year and a half since the treatment. The method of administering the radium was similar to that employed in the treat ment of malignant prostates. An effort vas made to expose every part of the gland to approximately the same amount of radiation and to prevent any one area from becoming overdosed. Four needles containing 12 5 mgm of radium were inserted in the prostatic tissue through the perineum and at the end of three hours were withdrawn the length of the radium bearing portion and allowed to remain in this position for three hours. The procedure was then repeated Thus during a nine hour exposure twelve areas of prostatic tissue were exposed to radium emanation no one area being exposed sufficiently long to produce necrosis and slough Approximately 500 mgm hrs of radiation resulted

In many cases multiple emanation tubes contain ing usually less than o 5 mc of radium emanation were thrust directly into the prostatic tissue through a direct cystoscope Usually four such tubes were placed in each lobe the do age being approxi mately 700 mgm hrs Rectal applications directly covering the gland of approximately 400 mgm hrs were also applied A combination of these methods insures an aggregate radiation of approximately I 500 mgm hrs throughout the entire gland and prevents any one area from receiving a dosage sufficient to produce extensive necrosi or slough such as occurs when needles are allowed to remain in one position for many hours. It is the absorption of toxic material from areas of necrosis that results in the marked febrile reaction commonly seen after radium treatment Localized areas of necrosis occur around the bare tubes since this method of application does not permit filtering out the short beta rays which are exceed ngly destructive to the immediate tissue surrounding the tubes but the rays do not penetrate far and although such multiple areas of ne rosis are often the source of a febrile reaction they usually remain localized and do not cause the extensive toxemia that is produced by large single areas of necro s around radium bearing needles left in place too long

The effects of radium on benign and malignant tissues are first a localized ordema and inflammation and then fibrosis hyalimization and endarteritis The endarteritis is responsible for the exceedingly slow healing of radium burns and explains the excellent results that may be obtained from ade quate radiation of bleeding prostates If it is re membered that bleeding is more common in cases of benign hypertrophy of the prostate than in cases of cancer it is evident that as a hæmostatic radium is most useful in the former Several cases have been treated in the Mayo Clinic in th s manner with very satisfactory results

Associated with prostatic enlargement there may be severe almost constant pain and discomfort in the perineum and groin which is often very resistant to treatment The cause is obscure but if there is little or no residual urine it seems hardly justifiable to recommend prostatectomy. Two patients of this type were treated with radium. After a period of more than three years they reported that they had had no recurrence of symptoms and were pleased with the results of treatment. In five cases with marked enlargement of the gland and several ounces of residual urine treatment with an average of from 1 000 to 3 200 mgm hrs of radium gave disappointing results. In two prostatectomy was performed within a month and in two others a cystostomy was done because of increasing signs of obstruction In the fifth case the risk of surgery was deemed too great because of the patient s poor general condition and a second course of radium treatment was given in the hope of producing sufficient atrophy of the gland to permit voiding This was not accomplished and the patient was comnelled to use a catheter for the remainder of his life

In certain cases the fibrosis that develops in the substance of the gland as the result of the applica tion of radium is followed by cicatrization of the urethral orifice corresponding to that found with contraction of the neck of the bladder. When this occurred in one of the cases a punch operation was performed to relieve the obstruction. In this case as a result of the radium treatment the residual urine was reduced from 10 to 2 oz but never

entirely disappeared

In two patients with slight prostatic enlargement and somewhat less than 4 oz of residual urine the most satisfactory results were obtained from the use of radium. The symptoms of obstruction were relieved and the further enlargement of the gland probably retarded

MISCELLANEOUS

Welfeld J Two Cases of Non Parasitaty Chyluria With a Re lew of the Literature J Uol 1924 XU 19

The author reports two cases of chyluria and reviews the literature on the subject

CASE 1 The patient was a 23 year-old woman a native of Chicago of Polish ance try She had had some of the common diseases of childhood but was well until the chyluria appeared in her ninth year The condition was of spontaneous origin and not preceded by any injury. The only symptom complained of was occasional irritation on voiding A heavy meal eaten at night was followed by the evacuation of bloody clots or a cheesy material associated with the irritation mentioned natient was able to control this to a certain extent by limiting her d et and drinking a large amount of water In the past year she had lost 20 lbs

The first cystoscopic examination showed a heavy grayish white film at the base of the bladder an I large bolloon like ma sea about each unterral ontine. Unother mass in the base of the bladder resembled a lymphangona. At a second examina tion four Iaya liter the harmagnomatous mass could not be a ch and I the billoon like mass et appeared to be an ordens ballooum. On firingtuon the exdens like appearance was found to be due to geltin us masses. The commander was found to the distribution. The other bit if rind may were normal gelting than. The other bit if rind may were normal unter the distribution of the distribution of the unternal time of the distribution of the distribution of the literal was a per cent. Microscopic examination showed the absence of filars or other gathon in corpositions.

mints or other planes one organisms mencian mal to vert of the first state of the control of the to vert of the control of the control of the months free a by like last one so change the up to the yetra sig when the cholung fart appeared to the control of the control of the control of month. The patient was discovered entirely act it tallis when the was operated upon for by incede like relow? In a short of the control of like relow? In a short of the control of like relow? In a short of the control of like relow? In a short of the control of like relow? In a short of the control of like relow? In a short of like relow? In a short of like relow i

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The author regar! as sign ficant the fact that in neither of these cases was any lift culty experience! by the patient although in one the symptom ha! leen present for fourteen; are and in the ther it ha! I cen intermittent. Neither of the patients had ever been in a tropical country.

Chyluna may result from any condition which causes a direct discharge of chip into the sume as from the bood due to malfunction of the k iney or from a lymphate. It tall come cting with the bladder or any other part of the unnary tract Leuilly it appears suddedly in a subject apparently healthy. It may be unisteral or blattera! The only constant sign is the presence of chyle in the unner Unicroscopically the unner contains fat in the mole of the control of the contro

Chiluna may resemble pyuna and I puna In pyuna the microsc pe reveals the presenc of rus cells. In lipuna the fat is found in large drops of

fine needles and crystals

Chilura is or leanly a condution of length as a spontaneous cure occurs but no other cases it lead to anama and severe delibity ending in death. Leastly the subject enjoys good health, but weakness and is at any result from the to timous less of fat and sometimes there is mental decreasion from worn o er the Condition.

Both Vanson and Castellum maintain that there is no j stif cation for the use of drugs in the treat ment. The patient should avoid jutty foods as much as nousible and should test after reals

C. D. H 1815 MD

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Fig bach W and McMahon A Osseous De relopment in Endocrine Disorders R 4 1 gy

In \ ray studies of the bones in more than 2 oco cases the authors attempted to determine (1) the bornal ossoous development at the various ages from 1 year to 2,3 cars the period of skeletal growth (2) the variations from the normal in endoctine disorders and (3) whether the internal secretions of the various glands event a specific effect on certain

sets of bones such as the flat long and short bones to the normal the authors accepted the outline given in Gray a Anatomy. Normal subjects were examined from 8 to 10 days after birth when they were finouths 13 car 58 months and 13 cars of age and then extry jear up to the age of 13 jears at which time normal oscows development is complete. All of the bones of the body were considered. The find ags in each of the endocrine disorders were compared with those in normal subjects of the same age. The results of conclusions drawn from them are as follows:

1 The information derived from the roentgeno logical comparison of endocrinopathic and normal subjects indicated that the X-x3 signs may prove of more value in diagnosis than the basal metabol sm blood chemistry and other so called specific and laboratory determinations.

2 In uncompl cated hypothyroidism retardation of development of all of the bones of the osseous system (not only of the carpuls) was demonstrated

roentgenologically at every age up to that at hich

normal skeletal growth is complete

3. Cases of hypogond and eunuchoid m
showed consistently a definite late fusion of the
pupps said ends of the long bones. The overgrowth
of the long bones in such cases is explained by the
state dosure of the puppls said ends in th presence of
an active bormone from the anter or lobe of the
kypopobysis.

4 In a sufficiency of the anterior lobe of the put any gland in which with the primary deficiency of the anterior blob there is a secondary deficiency of the primary of th

5 In the plur glandular syndrome the development of the osseous system as demonstrated roent genologically is very difficult to int pret. From the studies mad thus far it appears that the following

facts obtain (1) In the thy roptunisty disorder there is an advance in the dex loopment of the carpal and long bone nuclei over that in hypothy rodism un associated with pitulary disorder (2) In pitulary thy rodism there is a retardation of the appearance of the osseous nuclei as well as of fusion of the epiphyseal end of the Ing bones which is more marked than that in hypothy rodism and normal subjects (3) The myrkedly heterogeneous pictures presented in the multiglianduals sudformes depend upon the sequence in which the various disorders were superimposed upon each other. For this reason the combination of the same glandular disorders may bressent entirely different? Yas pictures at the same present entirely different? Yas pictures at the same

6 In the less frequent but vers instructive condition of puberts pracox (suspected pracalism) the most uni unal advancement in development of the bone nucl i and early fusion of the cpph seal lines were found. The four cases studied demonstrated an effect exercted by the gonal hormone upon osseous growth and development and presented a picture exactly opposite that consistently found in the

hypogonad subject

7 The few cases of thymoly mphatism apparently presented much the same osseous retardation as mild hypothy rodism. The development of the bones in positive cases of enlarged thymus should be more thoroughly studied to clear up this much mooted po nt of the relation of thymus function to the development of the bones.

F WALTER CARRITHERS MD

Girdlestone G R The Treatment of Tuberculosis of Bon s and Joints B 1 M J 9 4 1 044

Bone tuberculosis is best treated in open air orthopedic hospitals and after the patient has been sent home as cured a careful check should be made on his living conditions.

Helotherapy ach ets results depending upon the extent of which the photochemical abetterities of the sins rays is cut out. This effect is best eliminated by dev loping being control the skin by gradual exposite of the body. Until and unless this pigment apposite of the body. Until and unless this pigment is developed only of the sin this is definitely harm full offer of the sun is ays can be tolerated and monthly of the skin to become pigmented is a good index to the prognous Sunlight and fresh as promote an experiment of the skin and cause a beneficial reflex stimulation of the deeper organs.

The parts should be immobilized accurately and comfortably and measures should be taken to prevent construction of the circulation and ant reference with respiration. There is a difference of opinion as to the importance of obtaining ultimate mobility of

the parts but the author leleves that except in the minority of cases in which ankylosis is desirable the treatment should consist of three stages (1) uninterrupted rest. luring the active disease (2) comparative immobil zation during the stage of healing and (3) free use under careful supervo ion after heal

In the cases of chiltren un let 16 years of age operation is selfour if ever warranted but in the ca es of adults in which ankylosis is the best that can be big the for surgery may be a liviable. Kest good food and inhotherapy, if begun sufficiently early and or intimed long enough will simoust alsa vise effect a cure that skilled after care will make per manent.

Berkl eiser E. J.: Multiple Myelomata of Children
A ch. S. g. 1924 vt. 853

The author reports two cases. The first was that of a boy 125, years of i who was admitted to the host talk with a proxisional luggor of lotts disease becaue of deformity of the settleful column. Headsche and somiting a ggested the onset of tuberculous menungiti

Any examination revealed multiple area of perforation of the skull and inv bern in of all the bones of the body except those of the han! an I the feet. The course of the con highor was progress; ewith marked namus emecation and multiple path log call fracture. Death occurred at the eri of a pear in the hospital. The diagnosis of highlo



bg i Lefthp Cave tth iff minths



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I d a M ltpl perf rat s fth skull n Case ?

evice myeloma was confirmed b autopsy and

The record cree was that I a gul 355 vers do who had had a 1 mp for a vers and finally devided who had had a 1 mp for a vers and finally devided per marked buisteral exophishalmos and multiple tumors of the skull which transmuted the pulsation of the cranial vessel The course of the contraction of the companion of the companion of the contraction of the

The author summarizes h s conclus ons as follows

1 Viselomata occur in children as well as in adults
2 In children the less sare la ger than those in
adults but in adults are more generall distributed



Fig 4 Fibrou and my elogeno s cell with a area f 1 mphocytes on on sid () n Case

3 Absence of Bence Jones protein does not elim mate mycloma. The older the patient the greater the incidence of Bence Jones protein in mycloma

the incidence of Bence Jones protein in myeloma
4 In cases of meningeal irritation an \ ray
examination of the skull should be made

5 The treatment is palliative Patients with multiple bone tumors and those with vertebral lesions can be made very comfortable by placing them in a posterior molded plaster shell

Bloodgood J C The C'i nt Cell Tumor of Bone and the Specter of the Metastasizing Giant Cell Tumor S f Gyn c & Ob i 1914 xx 1 184

The author reports observations indicating that there is no reason to fear a malignant grant-cell tumor not metastases from any typical giant-cell growth of bone in which giant cells of the epulis type pre dominate even though there may be local recur rences. This claim is based on a study of 177 cases without a single death from met stasis and in 19 per cent of which recurrence followed curetting operations and necessitated resection or amputation The author concludes that the case reported by Ewing and Stone in which recurrence and metastases followed curetting is unique if the tumor is accepted as one of the benish giant-cell type originally event) five of the r c ses stud ed by Bloodgood were cured by one or more curetting operations the only cause for a recurrence seeming to be some fault in the technique of operation although this was pot ces itely proved

If curetting is done the author advises that it be done thoroughly with the use of an electric cautery and a constrictor about the 1 mb if possible. The bone shell should be cauterized with pure carbolic acid followed by alcohol and the cavits then packed with gauze saturated with 50 per cent zinc chloride. The advisability of the use of the 'N ray radium an it tonis will be discussed in a later active!

Twelve illustrations are presented to indicate the variability e pecially under magnification in the size and morphology of the cellular tissue in which the giant cells of the epulis type are embedded. It is because of this variability that the giant cell tumor

is sometimes considered malienant

Bloodgood concludes that a central hone lesson with an inject hone shell which resembles the protect cell tumor in the gross picture and more or less closely in the interescopic picture is being. The only possible malignant growth of this description is the esteogenic sarcoma of the chondromyor type which is readily distinguished from the guant-cell tumor in gross and microscopic section

CHESTER C GUY M D

Ely L W The Second Great Type of Chronic Arthritis in Its Relation to Industrial Accident Gases C I for 12 & II 11 M d 19 4 xx 260

The relationship of trauma to the second great type of chronic arthritis is a question that frequently arises in industrial accident cares When in the past the \ ray examination after an injury showe ! the spurring and lipping of the bones characteristic of the arthritis known as hypertrophic degenerative osteo arthritis these changes were explained by the trauma but in recent years the view has been challenged Trauma has been suggested as the cause of almost every bone disease but it has been proved that bone can be injured only by fracture or disease of the marrow. The gross bony changes in these cases must require a long time for their develop ment they cannot occur a day or two after injury The disease is almost invariably seen in later life in persons having al colar abscesses at the roots of dead teeth. In many cases intestinal parasites have been found in the stools The pathological changes in the tissues are as follows

r Bone production under the articular cartilage causing the cartilage to degenerate but not forming bony ankylosis and necross in the marrow causing preponderating bone absorption

2 Degeneration of the cartilage and el urnation of the subjacent bone

3 Thickening and fatty and fibrous degenerat on of the synovial membrane with chronic synovitis

These changes may cause pain but more often do not In a case of wrreabed your the rocatigenogram will show characteristic changes of arthritis and after a time the pain at will complain that the pain continues

In El) a series of cases trauma was not an etiolog ical lactor. It seems probable that injury to a joint which has subtreed arthritic changes would cause recurrence of pain and stiffness. In a normal joint the injured tissue will soon heal and the pain and stiffness will desprear. Fly believes the word trauma is loos ly em ployed Trauma can cause only a sprain or an intra articular fracture of a joint.

In intra articular fractures I lowel to pain still new and restriction of motion especially in ellerly persons at its probable that the fracture sets free in the junt infect our material which was previously locked in the bone. R. C. Lovraoux M.D.

Koenig F: Roentgen logical Observations of Tuberculous J int (Koenig books ht g t berkuloesen (lenke) Z n. a.4 f Ch 1974 l

A senig reports the most important find n s in tracer ful roentgen logical elservations of the six large I ints

In important change is the atrophy of the adjacent bines but this pot included in the escational associated for lings. In edlety persons a course broad outlining of the individual bone trabecular was frequently in ted. Attribute causes deforming changes such as cora is run all subjustion.

B ny preliferat ns which are u ually the expression of a severe th turk nee were observed in to percent of the cases most of which were those of

children and soung persons

In twelve patients the roomigenogram in licated that the bone was the primary site of the tuber culo: but tuberculous sequestras of any cons lerable size were rare. In advanced cases there is often destruction of home extend in grint the foint ca ity.

The tuberculous character of a joint live herm its suggested by round bony defects at the site of insertion of the joint gam nis defect formations at the insertion of the capsule and construct as at the insertion of the capsule and construct as a Cecasionally, the just space appeared widered because if was forced agart by lunguous may set more often it appeared reduced as the bone shades were approximated by the destruction of the cartilaginous surfaces in eleven cases important information as only turned from a study of the soft cap till and gravitation abscesses may be visible on the plate.

Vulliet H Path logical Sep ration of the Femoral Neck in Girls During Puberty (I décoliement path I gru d c I lém r 1 the les fillettes à léponu d la puberté) Pr méd P 1914

Vaillet reports five cases of separation of the fem oral neck in guite between to and 15 years of age. The subjects were of a more or less ad pose genital type and gave a history of intermittent and moderate claw licati n pain and fatigue. I carried indicate estimation was negative and the X-ray showed no surkung change. It has been considered after a config accelerate which might have been claimed to the config accelerate which might have been claimed in the config accelerate the history has been partent rare cruse or its r ult. The case on apparent rare cruse or its r ult. The case on apparent rare cruse or its r ult. The case on apparent rare cruse or its r ult. The mouths of immoli

aution in extension abdiction and slight internal rotation gave solid union usually without shorten ing. Within from four to us months (antitional recovery was practically, complete. In some of the cases the N ray showed the femoral neck broadened shortened and is fighty changed in angle and the flower of the complete of the shortened and shortened and in the complete of the shortened in account of the armediate of the shortened in the shortened function was practically normal.

During the early stage of the con I to not is often wrongly if agnowed as tuberculos a or syphilis especially if the disab I ty was not preceded by trauma Ch I tren hould be placed at rest in time to prevent

the english cal separate n

Vulliet heleves that many I si ns I the juvenile hij wh I differ con lerally in appea ance are part of the same process the character itse of which are established gra I ally The d formity of the ep ph sis after separati n strongly resemble; juvenile or teochon Intis deformans in the coxx sara of

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tion of function to the new shape. Frequent
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SURGERY OF THE BOYES JOINTS MUSCLES TENDONS ETC

Hedlung F The Treatment of Acute Septic Osteomy litis of the Long Bones. I to the st Sand 1914 | 1 5 3

The operative method recommended by the author and emplose by him in twenth one cases consust in (t) extrems e choseling of the affected bone with removals of all macrocopic diseased bone (2) the introduction of Carrel tubes for thorough streas and the casu. (3) the dramage of abscesses in the soft parts (a) extellularies to the harmonrhage in the soft parts and (5) suturing of the musted askin around an opening for the Carrel tubes. On the een the or testificial so that the centre of testificial so that the solution is stopped and the tubes and the skin sutures are remove of

This method relieves the pain shortens the period of healing from an average stay in the hospital of two hundred and sixty-one days to one hundred and one days pre ents necros s of the bone and usually

renders sequestrotom; unnecessary
Two cases in which sequestration of the bone oc

cutred re th se of young boys with acute osteo my chitis of the cla ricle and ulna respectively in high the bone vas surrou ded by pus Sequestrot omy became necessary also in a case of ostcomyelitis of the tibia in a 10-year-old boy because the irrigation fluid employed had been too weak. In the case of a so year-old man who had been operated upon for acute osteomyelitis of the tibia the treatment failed and amoutation was indicated because of a pyogenic infection of the ankle joint with associated penarticular abscesses Two patients died of pyæ mia which began with great severity the day after the operation In all of the other cases however the method brought about complete healing without sequestrotomy Occasionally one or two small se questra become separated spontaneously

Following the treatment described the skin cica trix has generally been narrow and loose and there has been no recurrence in the form of hone abscesses or chronic osteomy elitis and no slowly healing bone

cavities

Gaz otti L An Experimental Study of Tenodesis (C nt ibuto sperim ntale alla te odesi) 1 d th r 1924 in 365

The author made a histological examination of the new tendon insertion in subperiosteal and tun nelization tenodesis performed on young dogs. A subpenosteal tenodesis and a transosseous tenodesis were done simultaneously on one of the front legs the does were killed after from one and one half to three and one half months and the segments were then removed for study

When the tendons were fixed by skeletal trans fixion or by perio teal bridges the relations given them by the operation were usually maintained When the new relations were lost this occurred in the transosseous tenodeses the subp nosteal tenodeses remained unchanged However tendons used in the transosseous tenodeses were finer than those used in the subpe iosteal bridge operations and in the latter a stronger typ of sutur ing was possible These facts the author believes might account for the d fferences noted

The histological state of the tendons us d for fixat on in the free tract beneath the periosteum and in the bone canal never deviated from the normal This is in agreement with the gross ana tomical find ags which demonstrated that the ten

dons remained normal in appearance

In the author's opinion his investigations sho that subpenosteal tenodesis has a definite value While in transosseous tenodesis the stabil ty of the transplant is certain there a e times when this procedure is contra indicated W A BRE VAN

Di Berna do A. L. Resection of the Ulna and Radius fo Central Sarcom of the Epiphyse Implantation of a Double Free Autosenous Graft from the F bula Recovery (R s o dell ulna del r di per a coma c tral d ll ep fi d phecautote pa t libe d l pe n gu gi ne) Rome 1924 x xi ez hir

The case reported was that of a woman aged 23 years As the findings of the clinical and roent

genological examinations suggested the presence of a my elogenous tumor in the distal epiphysis of the right radius resection of about 7 cm of the radius was done Microscopic examination revealed a giant cell sarcoma Later a 6 cm portion of the ulna was removed

A 12 cm segment taken with its periosteum from the posterior margin of the fibular diaphysis was divided into almost equal part and the parts were placed in the ulnar and radial defects. There after the arm was immobilized for twenty days

A ray examinations showed that the grafts re mained alive and in good alignment. Ten weeks later a bony bridge united the segments to the diaphysi of the ulna. The final result was good asthetically but some abduction of the hand and limitation of flexion remained

The author observed that the first contact be ti een the diaphysis and graft was manifested by an exclusively periosteal bridge which gradually extended This he regards as undeniable proof of the importance of the periosteum in osteogenesis

W 4 BRENNAN

Hackenbroch M Operati e Neo Arthrosis of the Knee Joint After Functional Use for Two Years (Es oper tiv Ne arthros d s kniegelenk ns h s ja hriger funktioneller Be n p uchung) Ar h f orthop Unf Il Chi 1923 vi 476

In the case reported a condition similar to that described by Lever Payr Schmerz Putti and Bier was found in a knee joint mobilized by the inter posit on of a fat flap after twenty one months of occasionally interrupted use Slight d flerences are explained by the difference in function (weight bearing) and the condition of the joint before operation The joint contained a space about 11/ cm wide which was filled with normal joint liquid Under the influence of function the shape of the joint approximated normal

As the result of condensing ost itis pressure recesses had been formed and a double layer of connective to sue covered the joint surfaces. The external laye had a syncytum resembling synovial membrane. The free edg showed many villi Evidently the marrow took part in the fo mation of the lower layer Remains of the transplanted fat vere found only in the complementary joint spaces which ere not due to pressure Most of it had been converted into the fibrous covering of the joi t or formed a septum like band across the joint cay

ty pa allel with the joint surface

Under the influence of pressure meniscus like layers of loose connective ti su had been formed There was an entirely new double layered joint capsule the inner surface of which had a villous synovium I ke co ering There was no cartilage formation on the new joint surfaces osteophytes and prohierative and regenerative processes (ville fat and connective ti sue) could be seen on all po nts of the capsule and joint surface in addition to degenerative changes Even bursa

formation and thromboses were observed Areas with the least pressure showed the most villous formations. In many points the condition resembled a pseudarthrosis.

Exert (2)

FRACTURES AND DISLOCATIONS

Starr C L The Treatment of Compound Frac tures of Long Bones Ill 113 J 19 4 xl 401

The victims of accidents causing compound fractures of long bones are very severely disabled and represent yearfy a very large industrial and economic loss. The frequent poor handling of these cases the author explains by the following statements

I Textbook teaching is brief the methods sug gested are open to criticism and the student is not given sufficient clinical contact with cases

2 Teaching is difficult because the cases are emergences and the students see the patient only after splints have been applied Interne service should be compulsory

3 The treatment requires a high degree of mechanical abulty not possessed by all practioners. Compound fractures may be divided into two wound being usually small and made by a 5g ule of bone penetrating the skin and () those compounded from without the yound being made by some crush of the properties of the properti

ing or penetrating force which is carried to the bone. In cases of the first type a sterile dressing is placed over the wound and the skin is cleaned with gasoline for a distance of 12 m. shaved painted with bodine and covered with sterile dressings. After this the

case may be treated as a simple fracture.

In cases of the second type the injury to the vascular structure may be so great as to demand immediate amputation but in those in which the vessels escane injury other treatment is usually possible.

The most common infection in the cases seen during the war was due to the gas bacillus and the loss of time before treatment was begun made the prognoses recedingly grave Testanus was also a common c mpication. While tis obvious that most of the conditions which occur during war and are responsible for the great calamittees of war surgery can not occur in injurie es sustanded in cruil life inoccult ton with antitetanus serum as probably advisable in all such cases. If is necessary first however, the contraction of the co

As soon as it can be done salely an anesthetic is administered and the lumb summed and cleansed in the same way as in the first class of cases. No at tempt at primary souther is made. The wound is examined for the removal of foreign bodies loose no viable tags of mixels end foreign bodies loose no viable tags of mixels and favoid not be removed unless they are practically extruded from the wound and completely separated from all sources of

blood supply. The extensive removal of these ing means as a very frequent cause of ulumate non-union Drains of rubber tubing may be inserted and irrigation continued every three boars. If properly sphint coin continued every three boars. If properly sphint ed with sphints of the Thomas pattern the wound will heal well. After two weeks of adequate channage and irrigation secondary suture is possible in a for number of each.

Whenever possible the wounds are enlarged to take advantage of gravity dramage. When this is impossible pockets of discharge are prevented by constant irrigation or the use of the Taylor suction dramage tank. The use of bupp (bi muth toduc petrolatum) may be of definite value if the paste is properly applied. The gross application of bup to fill the entire cavity defeats the nutrose of tis use.

Adequate and early splinting tends to lessen shock prevent further injury limit sepsis and secure om fort. It has for its objects (1) proper algament (2) recovery of the original length of the limb (3) immobilization of the joints above and below the fracture and (4) easy access to the wounds

Splints depend for their efficiency on the principle of extension. The great lesson of the war so lar as fractures are concerned was the marvelous utility of the Thomas splint. For transport this splint provides easy extension and in the hospital may be supplemented by the use of the Balkan frame.

The chief causes of non union are first gaps due to loss of substance of the bones from the early re moval of many of the comminuted fragments and second faulty apposition due to the interposition by muscle or fascial structures Comminution i creases callus formation and the probability of union. Under septic conditions bones not prope ly pproximated may be brought into line by splinting with extension the removal of intervening tissue and fixation with heavy kangar o tendon inserted through drill holes in the fragments F1 ation of fragments in septic fractures by steel slates or bands has been proved barmful The non union results g from failure to remo e fibrous tissue separating bon ends is best t cated with an autogenous bone graft approximately a year after all sinuses have healed Plaster-of Par s splinting must be maintained for three months be fore healing can be expected F ilures a e usually due to sepsis poor approximation or faulty splinting After perfect healing a prolonged course of hydro therapy and massage should be emp o jed to hasten

recovery of funct on
Neglect to follow up these cases is r ponsible i
large measure for the long periods of disability

R C Lo EXCUM M D

Cleary E W Fractures of the Spinal Column
Clifors a 5 ll 1 Med 9 4 xx1 19

Cleary reports fifty two cases of fracture of the spinal column one half of which h d been incorrect ly diagnosed. He attributes the errors ind gnoss to 1 he erroneous behef that every broken neck or

broken back presents unmistakable symptoms and physical signs 2 Inadequate \ ray examination

t The concentration of attention on some more apparent complicating lesson A Failure to obtain a clear history of the nature and violence of the force brought to bear on the

r Failure to make a thorough physical examina

tion. With regard to the treatment Cleary states that a proper fusion operation usually shortens convales cence and gives a higher degree of recovery than conservative treatment. He found the Hibbs opera tion more efficient than the Albee graft fusion. In difficult lumbar cases he uses a special type of double tibial graft which he describes in detail. An essential part of the after treatment is carefully directed physiotherapy

After thorough fusion is effected by early op eration industrial patients return to employment in from eight months to one year with an average permanent disability rating of from 30 to 40 per cent or less. Patients with similar injuries treated conservatively require approximately tvice as long to return to work and show an average disability rating of from 40 to 50 per cent or more Patients not receiving adequate treatment are ant to have indefinitely continuing total disability and may de velop late paralysis CHESTER C SCHNEIDER M D

Bonn R Bony Union in Subcapital Fracture of the Neck of the Femur (Zu Frag der k oecher hen Hel gsi ehigkeit ubkapitaler S he k lh is frakture) A h f kli Ch 19 4 cx 111 342

In a previous report Bonn stated that in subcapital fractures of the neck of the femur bony union will occur only if the capsule surrounding the hip joint remains at least slightly attached and bridges the gap Further research has since cleared up the significance of the inner capsule answering in particular the question as to whether it merely usures the distribution of the blood supply or is itself concerned in the process of healing through

bone formation By means of transplantation experiments it was possible to demonstrate that the capsular coating of the neck of the femur does not have an osteogenetic function similar to that as cribed to the periosteum

Proceeding from the established fact that perosteum transplanted into mus le soon produces microscopically demonstrable bony tissue. Bonn transplanted portions of the capsule surrounding the hip wint into the gluteus maximus in four dogs The results were absolutely negative In two further investigations he transplanted in addition to the capsule a thin strip of cortex taken from the intra articular portion of the neck of the femur. The results of these investigations also were negative

Six other investigations on does served to dem onstrate the course of healing under various con ditions of artificial subcapital fracture of the neck of the femur In two portions of the capsular coat and the bgamentum teres were left intact in two others the capsular coat was entirely destroyed but the ligamentum teres was left intact, and in two others the capsular coat and the ligamentum teres were both removed

It was found that total necrosis of the broken-off head of the femur is not necessarily a sequel in subcapital fracture of the femur although even in the most favorable cases definite disturbances of nutrition were apparent particularly in the subchondral portion of the bone Bony union seemed to be dependent directly upon the degree of necrosis of the head The importance of the I gamentum teres femoris for the viability of the head of the femur was established beyond doubt. The head of the femur is supplied with blood chiefly through the capsule therefore its viability is dependent to a considerable degree upon the preservation of at least a portion of the capsule When the capsule is preserved there is an abundant production of callus and when exact reduction is obtained in such cases the prognosis for bony union is very favorable

WAGNER (Z)

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

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Contracts

Sacrables.

BLOOD TRATSPISSOR

Mexander M. F. (Binke t. ad Experimental Obsert the on Blood betterent tier H ! 13 / 14

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ITMEN STEETS AND CLAYDS

If n mann (II Non Tuberculous (ex loma tou l'emchedeniti t 6

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It in tially no flowed t enlargem t fahr righ I lymph r les. There to al such gner! mitmat ner umtga! girl u water (10 cos t 5000 The gard m rie m aibrent to th ka sth ers ft of th | Lame t re reacts . At he t th i Em ! try t tun to on of t th I mph gla ! In m there it e tend to il mirro ca ti es

Sinuses then form from which a small amount of sticky pus exudes until secondary infection takes place

The Jumph glands show local areas of suppuration willed off by granulation itsue infilitrated with endothelal cells gant cells and lymphod cells in some areas these for become joined and the abaye of the cavity thus formed which is filled with polymophonuclear leucoyets is somewhat stellate (At turns the Jumphadenius so closely resembles inberculoss at tuberculoss at tuberculoss at tuberculoss cannot be ruled out off two on the bass of the histological evidence of the control of th

lesion Giant cells at the edge of the lesion are not

Hodgkin's disease is easier to rule out than tuberculous Granulomatious lymphadeantis in volves one group of glands and stops there. Chronic glanders is ruled out by the absence of the glanders bacillus and the effect of this bacillus on the male gunea pig. The Mallein test is also of value Chancroid sphilis and Chamatic bubo are other

conditions that must be differentiated Medical treatment consists in the administration of iodine iodides and emetine bydrochloride and surgical treatment in the drainage of softened areas or the removal of the entire mass of glands

The author reports four cases in v hich a complete cure was obtained CARL D NEIDSOLD M D

SURGICAL TECHNIOUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Meyer W The Importance of Posture in Pot operative Treatment 31 d J & R c 19 4 cur 59

Of the various postures the author considers principally to which he has use i for a great number of vears in hospital and private work eith r alone or combined with others viz the slight Trendelen burg posture and Summ posture which is sometimes

exaggerated to the abdominal posture

In Mevers opinion the incidence of venous thrombosis following abdominal a d pelvic opera-tions a hich usually occurs in the left femoral vein can be greatly reduced if not entirely pre e ted by placing the patient in a slight Trendelephore posture by inserting blocks under the foot of the bed In this position the blood in the lower limbs will run down from the toes to the hips and in its onrush will easily reach the veins in the upper pelvis even perhaps the region of the renal veins from where the negative pressure in the thorax the suction of the right heart will substitute the electers ing velocity of the blood current Mever is convinced that this simple procedu e of raising the lower end of the bed is most effective in the prevention of femoral and pelvic thrombos s. He has been using it after every operation at or below the level of the beart and in the cases of weak patients subjected to operations on the head and neck

For many years the preventive effect of posture has been methodically supplemented in all of the author's operative cases by frequent movements particularly of the left lover limb and by deep and frequent breathing exercises duming the first or own considers particularly in mortant. In the cases of weak patients and after severe intra abd minal and intrathorace work a prophylactic subcutanous stimulation of the heart mu cles is induced with camphor caffier disable of the diptil in and other preparations administered immediately after the latest they are given by month unimber of days.

Mey erissist upon Simm sposition follo ng chole cystectiony or appendectiony and after perfor to of the appendix. This should be mantianed for the first eightent to usently hours. At the end of the first eightent to the chird way after the op rain in the pasticular may permissibly take the left may be permitted. On the third day after the op rain in the pasticular may permissibly take the third day as the foot of the drawed on bloods. Viewer use its Smms p sture also after the operation of gasts controvitiony and at the same time slightly rain exthe head of the bed. He never keeps the head end of the bed on blocks longer than three days but ke ps the foot end ra sed until the patient gets un unless there is some difficulty in unnation in

which case it is lowered temporarily Meyer combines Simm's posture with a shout Fowler or Trendelenburg posture the degree depending upon the amount of nfection and exten sion of the intrape itoneal effusion. If the lo er abdomen and small pelvis are found filled with infected fluid he makes a stab wound in both groin introduces a drain into the small belvis and the respective lumbar region and then turns the patient upon his abdomen and slightly raises the head end of the b d He does not believe that postoperati e opeumonia is favored by the right simm's posture employed immediately after an operation when the patient is slowly recovering from the anasthetic As a preventive of aspira tion into the lungs as for instan e in gast ic lav acute dilatation and persistent vomiting or pre operati e retroperistalsis due to intestin l'obstruc tion he believes the Simms postu e combi ed with a slight Trendelenburg posture is most valuable

Exit C Robitsher MD

Mata R The Continued Intravenous Drip
A S 1 914 kmz 643

By intravenous drip a meant the ducet ad mistration of arthficial sear drop by drop not a selected went restore the viscular equil br un and railly the patient until the defensive associat mechani in has had time to as cit it di which means in the constant of the contract of the contra

The alue of the continu u int avenous dip is esp cially apparent in the pot permive treatment of septic abd minal c inditions in which d bad at a and c house no p exceed the ope atton and in cases in which the absorb it and d im t is g'incloss h we been inhibited so th t supply by the oral hypodermal or gastro-du den i out is who ked

"As an djunct to the continuous tra efoux do per the duodenal thite as if the catest imports ce it tae form i the juste tube the per a per and the the sometime to the form the part of the form the per and the p

Matas des shes the apparatus and the te hig e in d tail SARVEL KARN M.D.

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Brunner C. and Von Gonzenbach. Additional Experimental and Clinical Investigations on Chemical Wound Antisepsis. Especially Deep Disinfection. The Actfolin Derivatives Tryes farfin and Rivanol (Neutre experiment tells und the pith special T independent Line De Act d. of n. atc. Trypaff. u. d. Rivanol). Betr. Bl Ci. 1931. oz. 225

On the basis of e perimental investigations the sultons have come to the conclusion that trapa favia and rivanol are very valuable wound anti-sputs with a markedly selective action upon steptococci but with a considerably less potent stoon upon staphylococci. Diphitheria bacilli the stoon upon staphylococci. Diphitheria bacilli the stoon upon staphylococci. Diphitheria bacilli the steel of the stoon of the state of th

inhibited only slightly in albuminous med a (serum)

but i markedly inhibited by pus R3 anol is less tour than trypallaxin but in the animal experiments both gave protection against ground infection. Therefore they may be used both in solution and in powder form for surface disinfection of ounds but a 5 per cent solution of todine in alcohol has proved better because of its pantherapeutic action. Destination of all bacters in fresh aseptic wounds in the provided of the provided

were more markedly influenced by D kin s solution

In pus cavit is joint empremant etc the effect of the application of rivariol was on the whole the same as that in infection of superficial itsuses and unlike that in deep tissue disnifection Because of its lesser toxicity. Invanol is more value able than value for deep tissue disnifection (infiltration authority) and the prophylactic infiltration with strong solutions of it was of up to it is oo does not of fee complete protection against infections of the tire of period and the same properties of period of the tissues by anaerobox spores from the soil was observed only when strong solutions injured the tissues often causing extensive necrosis.

In conclusion the authors state that we are still far from obtaining an ideal marked bactericidal effect with minimal tis ue injury even with trypa flavin and rivanol Bone (Z)

Monro A S Gas G ngrene (Bacillus Aerogenes Cap ulatus) Its Recogn tion and Treatment Incidence in Civil Practice in Brit sh Columbia \(\frac{th}{th} \) i II d to 4 xx 3t

Mono discusses the etiology morbid anatomy bacteriology symptoms and treatment. The best prophilactic measure is the use of a serum containing antitorun for the tetanus bacillus bacillus welchin bacillus welchin bacillus welchin the serum should be as high in antitoxin units as it is possible to make it.

Intramuscular injections should be given as soon as possible after the injury and in severe wounds the serum should be applied locally as well

ENTL C ROBITSHER M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Swann M B R: A Study of th Immediate Effects of the K Rays on the Functions of Certain If suce and Organs F at J K d 1 1924 21 205

Heaf reference is made to previous work done by others with frenct to changes in function produced by receigen irradiation. Among the clin cal phe nomen a recorded are burs of the skin sterling changes in the blood previous and var us degrees of constitutional reaction. The experimental results include both general reaction and what the state of the provious results of the provious results of the results of the results of the results of the provious results of the re

studed very extensively To add to our knowledge regarding the influence of the roentgen rays on the functions of the mer mal organism the author carried out cons ferable experimental work on cats rabbits and guinea p.cs. Unfiltered rays of me hum hardness were used The conditions and r which the sarious experiments were p riormed are described and the effects of the Yeav treatment on respiration blood pressure and lung volume are shown by tracings Attempts were made to dete mine the cause of certain uni formly observed effects such as the fall in the blood pressure and the changes in the respiration. The action of the rays on the smooth muscle of the bronchi and bronchioles the autonomic nervous system the isolate i heart the isolated and intact uterus and the isolated and intact intestine were stu lied at length

The findings of these investigations are sum

marized as follows

In intact animals the roentgen rays cause a

gradual and regular lowering of the mean blood pressure and if the exposure is prolonged death from cardiac failure

- 2 In the early stages the fall in the blood pressure may be due to dilatation of the arterioles and capillaries.
- 3 No satisfactory explanation of the fall in blood pressure is yet known 4 Respiration is stimulated by short exposures
- and depressed by long r exposures the final resp r atory effect resembling that produced by morphine 5. The atimulation of respiration is probably produced not by excitation of the center in the medulla but by increased reflexes from the sensory
- nerve endings of the body
 6 Constriction of the bronchial muscles has been
 shown to occur as the result of exposure to the
 roentgen rays
- 7 The autonomic nerves (vagus sympathetic and planchnic) are rendered more sensitive by

short exposures and may b depress d by prolonged

aposures.

8 The mentg n rays caus the isolated rabbits heart to die in systole. Short errosures of the isolated rab its hart increas the dig ee of contraction occasionally the diastole is also lengthered Probin ed errosures diate the coronary to as Is and caus the venturel to enter into tonic contration.

o After a latent p r xl the solated uterus of the virgin guinea pig is driven into tonic contraction. Subsequently periods of toxic contraction alternate with periods of large automati mo ements. If no further exposure to the rays is g en the uterus returns to an apparently normal condition.

10 For reading the mo ements of the uterus and intestine in the intact animal s new method was devised in which a liquid paraffin manom ter was found of valu.

1. Roenigen rays cause the uterus in the natact animal to enter into a series of er.) harge contact than but the latent period is longer than in the solited guines pig uterus and the ons to the out tractions less sud for. The resists at in the ment into the trend that it is support the tone of the trend at in its stopped the tone of the uterance muscle and the size of the contractions do not approach the normal for a proof of bours.

12 Roenig n rays cause the tone of soluted rabbits intestine to ris steadily to an e cessive degree. The effect res in the produced on pl in muscle by drugs such as lead or barium is In the intact animal (cats and rabbits) the

roentgen rays produce an increase in the intest all movements and a slight r so n tone. In the cat the rise in tone may be marked. When the radiation is stopped, there is a gradual diminution in tone.

14 It is not yet possible to say whether the action of the roentgen rays is exerted directly upon pain muscle or upon the autonomic ner e-endings in the mascle Aporton Harryo M.D.

MISCELLANEOUS

keller P On the Action of Ultraviolet Light on the Skin with Particular R gard to Dosag (Lebe d W ku gdru ultr lett Lines of d Haut t beso d B ruck higu g der Dos erung) St die aller p 9 3 2 m 5

To estimate the alue of the three mo important methods of measuring the dosage of ulteravoleth the Bering Neyer iodine method the Eder Hecht rethod and the Fuersteau a timonier-the author attempted to determine how of the measurements agreed with the own of the holowhole the state of the the contract of the holowhole the the three three three the which is the three three three three three three and halve are elegals to bout 320 mers) and and halve are lengths to bout 320 mers). While 11 still an open question which part of the spectrum is mo t pot criful in the production of biological reactions it is generally recognized that the curative action of light runs closely parallel with the greed cry thems (Rost). Accordingly the Fuer stema actionnets is unreliable as it includes too still a still be still be a still be s

The author modified the Bering Meyer test by adding starch and sodium thosulphate to the potas rum rodide solution thereby immediately bin ling the todine which is split off instead of titstun the rodine at the end of the radiation as

proposed by Bering and Meyer

sufficiently well with the phenomena on the skin in contrast to the results obtained with the three other method which were sometimes extremely mislead ing. As the course of the new reaction depend stock) on the size and surface of the vessel contain may the fluid the concentration of the iodide of Polassium solution the acidity and the amount and one nettration of the added sodium this ulphate the measurements must always be made under mislar conditions. The skin reaction and mea ure

Comparative biological measurements sho ed

that the results of the measuring technique agreed

ment agree best when t c cm of N/400 sodium thiosulphate is added. The measurements are made at one fifth the focal skin distance

With the filter differential method it was deter differential method it was determed that the reaction is caused direitly by the about the control of the control of the control of the blue glass filters are used the cry them a dose less above the Alpine sun unit. Attempts to shorten the reaction time by cataly ares were successful only for rays that pa sed through the glass. Since the quarts lamp is not a punctate source of light the law of dispersion applies to it only at a distance of 20 cm or more

With regard to the question as to whether the Bunsen Roscoe reciprocity rule or the Schwarzschild law holds good for light from a quartz lamp the author's method of measuring demonstrates that the dose is the product of the intensity and duration of application of the light and that a Schwarzschild of application of the light and that a Schwarzschild cannot be assumed. The raws producing erythema are not filtered out electively through I meter of air

The new technique described by keller is an improvement on the original method because the sensitivity of the latter to rays producing crythema i decreased by the todine which is split off during the application of the light.

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REPERT OF INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REF RRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

Radiography of the a i m H. C Norr Med I Au.t ha 9 4 1 Supp 532
Cranual ad raphy R Knox Brit. I Radi logy 10 4 XXI 235 Osteons its of the fort be e operation recors

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The transact pe atto f di ease f the l chrymal Am M As The transact pe and apparet W J HARRISON Brit M J 924 i : 47 [361]

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INTERNATIONAL ABSTRACT OF SURGERY

DECLMBER 1924

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SURGERY OF THE HEAD AND NECK

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This struke establishes the general applicability of a single mathematical equation to the determination of the effects of changing positions curvatures and thicknesses of lenses as used in ophthalmic pattle on the person for it hom they were Plenchled The thick person for it home they were presented for consideration is Castal many and the present of consideration is Castal many and the present of the change in effectively for many the presents of the change in effectively for its many the distance is a present in meters. Despresses the special of appeter and keep is the contract to appreciate the special of appeters of the lense that the present is the special of appeters of the lense that the present is the special of appeters of the lense that the presents the special of appeters of the lense that the present is the special of the lense that the present is the

Whe decreasing it is meaning of the expression change in effect to an illustrating his state ments with diagrams. Small dilustrating his state ments with diagrams. Small consistent of the formula in (1) calculation of the effects of changing the position of a single kens before the eve (2) the effect of a change of position of a lens in the trial fame or net refracting instrument (3) the amount of hypercondition of the properties of the properties of the properties of the properties of the control of the properties of the proper

The portions of the article which deal with the determination of the retractive equivalents or frame powers of modern ophthalame lenses and in particular with the calculation of the vertex powers of special processing the vertex powers of the presented in postcataract cases should prove of spin the purpose of spin and processing the purpose of guitary sings base curves used for the purpose of guitary sings base curves used for the purpose of guitary sings base curves used for the purpose of guitary sings particular the processing sings and processing the purpose of guitary sings and becomes used to the purpose of guitary sings a grant sheer effective powers with the bucomes and biconcave trial case lenses. The article includes that is showing the

effective powers of cataract lenses ground with various curves. These calculations show the difference between the frame power and neutralization values of different types of lenses. Several diagrammatic illustrations and a number of numercal examples emphasiz the points presented. The acceptance of the fundamental formula and an appreciation of its significance in refractive problems appreciation of its significance in refractive set removes some of the outstanding difficulties are some of the outstanding difficulties in modern ophthalizate lens theory and practice

Johnson F M The Treatment of Carcinoma of the Conjuncti a with Radium Am J Ophil 924 3 8 Vi 589

The usual treatment of carcinoma of the con junct a has been exist on with local cauteriation enucleation or exenteration. The author reports is en cases treated by unfiltered radiation which seem to prove that this method is preferable to sergical removal as the latter may pread the disease. Four of the cases had been operated upon and had developed a recurrence. After radiation there was developed as recurrence. After radiation there was developed as recurrence. After radiation there was tumor. In one case the was recorded to the before the completion of the treatment and recurrence de cloped in the soft tissue of the other recurrence de cloped in the soft tissue of the other

king C. The Ue of the Simple d Gullstrand Diaphragm Ophthalm c Lamp in Current Clinical I ractice Oko Stat M J 9 4 xx 5 8

Aing advocates the s mplified form of the Gull strand diaphragm lamp for daily current clinical work not only for external examination but for ophthalmoscopy for transillumination of the media for retunoscopy

for retunoscopy
A dental bracket is substituted for the heavy
netal based tippod to insure easer manipulation
and several tubes are supplied for transillumination
retinoscopy and onthildmoscopy.

In focal illumination the malifed lamp eves a concentrated light with a surroun ling area of dark ness With this lamp and the or hthalmoscope of the Cull tran I apparatus very fine opacities can be seen by the light refl cted from the fun las The author states the the dist bragm lamp of Gullstran ! more n arly fulfills the conditions of accuracy as last down by Jackson thin any apparatus hitherto available Ily means of it centric and acentric ret aless on thalmoscop according to the technique of Cullstran I is possible. The attachment of a e no al top permits tran illuminate n of the eyeball through the let or select to u. W score MD

NOSE AND SINUSES

Shambuugh G F Observatt as on 5 me of the More Recent I roblem in Rhin logy 1/ 1 13 M d 1032 VI 42

After a ferring to the unwarranted hel field in the eighties that very case of asthma w a et ol zi cally relate I to some nasal condition -a bel f Lasol on the associ t d palpal le changes in the nasal cavities-the author draws attention to certain recent unwarrante! claims concerning the naval origin of h adaches sphenopalatine g aghin reu talga and involvem ut of the optic nerve e peci ally in cases in wh h there are no associate? lemonstrabl changes in the nose or sinuses Shambaugh is more inclined to attribute the latter condition to some focal infection

Otto M R IT MD

Turner A. I : The Relation of VI ual Di turb uncer to Affections of the Posterior Sinuses J La 10d = (1 of 1924 xx ix 371

Syme W S The Sphenoidal Sinus and the Optic

Serse J Lay tol ON 1924 ¥ 375 Young (Retrobulbar Seuriti of Sinus Origin

I Lay (1 & Or 1 ross 33
Traquair II M: Ti Value of Visual Changes in
the Diagnost of Optic Nerve Di ase Due to Latent Morbid Conditions of the h sal Acces

D ndas Grant Sir J Lary tol 0 1 19 4 Cases of Ocular Di tu b ances Attribi ted to Nasal Disca e with Re c very or Improvement Following Intranatal Operati e Measure J Lay (1001 1924 x 14 397

The e papers were read at a joint discuss on held 1) the Scotts h Society of Otology ar I Lary agology an I the Sc trish Of hthalmological Club at Ed a burgh on the r lation of vi unl di turbances to affections of the na al cavit es and the posterice eroup of sinu cs

Ti anex opened the discus ion by calling to min ! that as yet no satisfactory e planation has been offered regarding the relationsh p of a certain group of nasal and ocular continons and that the onhthalmologist is unable to give a d I mite chinical p cture of the type of case which will be relieved by nasal interf rence. The difficulty s of the ophthal mologi t are still further increased by the fact that improvement or a cure of the visual condition may immediately follow the opening of the sinu es when the eve changes are undoubte lly dependent upon an entirely different cause such as dissemina ed scierous in which the eve phenom na are m rely a prodromal sign of that disease. Moreou r in som cases the thinclogist is unable to say whether the posterior sinuses are diseased or not

Turner belies s that r ported cases of ocular Is turbance which amy roved after operation on at parently healthy sinuses mucht have impro ed as well after nasal treatment and he fears the danger of promiscuous operations on normal's nuses. As the teeth and tonsils are possible offen lers he suggests that the opthalmologist ask f r a nasal and roent gen agraphic examination of all of his cases of optic nerve cha g s whate er the cause suspected that the neurologist a m larly submit his cases of disseminated there's for exam pation and that the lary neologist and roenteen logist make a series of observations on the masal and sinus con I tion of a series of pati ats without vi ual disturbance

Same detailed the results of he anatomical in vestigations concern he the spheno dal sinus in relato n to the ontic nerve showing therely the vulner able position of the ontic nerve in the presence of supp rati n in the r terior sinuses Sphenoidal and posterior ethino d) di cise he said is common particularly the type that eterated by polypoidal I general n of the lin ng membrane

Ih opts perse thang a noted by 5 me were congestion of the disks and optic neuritis. The n rie miy become affected through toxemia b firect pr pagation of the nilammatory affection of the sinus b way of the thin bone or by wa of the strands of throw to be and small vons which S me h s I monstrate I by d rect extensi a through the rot I tract an I by I rect absort tion of the prod ucts from the mus thr ugh the roof and I teral

walls into the ar choold cavity and by this route to th n cs He ause of the difficulty in making a diagno : of

sphe oidal lise ise in the latent stage. Some believes w are just fel in opening up the sphenoid at the request of the ophth imol gist even if definite clinical sign are absent ad certainly without r ference to the \ ray findings Young believes that sphe o lal sinus disease

particularly of the non-purul nt type may cau.e retrobulbar neuriti and fiels ju tilled n op m 8 the spheno d in cases f eir bulbar n unt s i th re is a sugg sti n of cr d gin th uppe nd post nor part of the n se-ero ding by the septum or by a enlarged or unhealth t binal Thi t f course presuming that ther potent Ily causative agents have been el m nated

TRAGLAIR di 1d d th ual changes whi h may be of aid in the diagnos f optic n rve d sease due to latent morb d co I tions of the nas I accessory

s nuses 1 to two groups I Chang s r ported in pat ents whose symptoms brought them first to the holog t and who were

then passed on to the oculist with a diagnosis of spected or demon trable simus disea c. As a rule the 'u sail changes are not complianted of by the patent but are found on examination. Enlargement of the blind spot and contraction of the field are mentioned but very little significance: attached to the latter.

2 Chang a found by the oculest in patients who couplin of visual symptoms or headache and in whom since discase is discovered subsequently by the thinologist. In this group the essential feature is a scotion of the central part of the field which mother the fixation point. An associated ector defect extending to the persphery may or may not

be present

Tanquar believes that it is possible to ascertain something as to the site and nature of the causal ison by a rational interpretation of the field def cis, which is the bistory the general condition of the eve the patient is ser the mode of onset of the ocular compant and the a sociated symptoms must also be plant and the progress of the case must be waited and the progress of the case must be waited upon the Tanquari regards as unduly persistent. An experiment of the proposition of the progress of the case must be epithalmologist cannot say whether an optic acceptance of the case is of mass down or many the case of the case is of mass down or many the case of the case is of mass down or many the case of

Devos General more of case of ocular distributes attributed to assal di case in which activations attributed to assal di case in which records of the modern

phenoidal and posterior ethino dal cells one case of papilardema and one of optic atrophy with im provement of vi ion after m ddle tu bine tomy and one case of keratitis profunda with improvement in the middle turbinectomy and drainage of the chimoid form M. Rorry M.D.

Trible G B Sinusitis from the Standpoint of the General Practitioner 1 g; M M th 9 4

The author directs the attent on of the general Tractitioner to cases of beadache neutrilgs and obscure by disconfert in the tetological factor. He then discusses may be tetological factor in the thorough a discousse of sums discose is mad by the chinological and reviews the accepted method of treatment for operations on the ethinological properties of the contraction of the contraction of the through the sum of th

Noodman M. Gardiner W. T. Guthrie D. and Others Discussi n on Suppurati e Di cases of the Frontal Ethmoidal and Splenoidal Sinuses Pec Ry Sec M d. Lo d. 924 l u. Sect Laryago 69

Woodnay stated that the frontal sinus resembles the gall bladder in that both are drained at their lowest parts by ducts that lead to larger cas hes and their decayes are dependently larged on military for the drains with no ur unding the distance.

A serious complication of frontal sinu operations of convolution. This is favored by the free anastomosis between the angular veins the superior longitudinal sinus and the emissary veins of the meniners.

Of the types of external operation Howarth's procedure through the floor 1 the best as it is less ant than the others to be followed by osteomyeliti

The ethmoid being a spongy bone is a source of permanent and latent infection. Infection spreading up the noise leaves infective organisms in the cell when it recedes.

Frontal sinus suppuration does not often cau e

It seems probable that cavernous sinus throm bosis artes primanly from the ethmoid not from the sphenoid and that the best treatm it would be to begin a complete eventeration of the ethmo sphenoid on one side and so to approach the cavern ous situs and turn out the clot

With regard to operation on the phenoid Wood man rai ed the question as to the desirability of removing all of the ethmoid cell or opening up

only a fe

The importance of the sphenoid lies in its relationship to the optic foramen and the vidian canal. In conclust a Woodman referred to the connection of the singles to the pituitary and suggested.

tion of the sinu es to the pituitary and suggested that in view of the permeability of the sphenoidal sinus to drugs the pituitary may be affected by a sphenoidal condition

GARDLER gave a lantern demonstration sho ing

the step of the Sluder method of opening the eth moid and sphenoid intranasally

(LTHRIE gave a demonstration of pecimens and showed lantern slides illustrating the variations in the cribin rm plate and its relation to the upper na all sinuses

Titter stated that the danger of octomy elius can be minimized by avoiding the use of sharp curetting instruments at the juncture of the anterior and posterior valls. The sinus should be irrigated of the infected tissue graftly removed with small may occur with point cases however ostownedius may occur with point cases however ostownedius may occur with point of the

WATSON WILLIAMS SAI! that usually a chronic fr nt 1 inus disease can be relieved by a prenasal operation e tablishing free drainage but that there a c some cases with pockets which fail to drain into the no c

There presented statutes on intracranial complications of ray of three sectory seem were spontaneous and forty-eight postop-traite. The final sines was responsible rules are seen the phenoidal in mineteen the ethinoidal nime and the matuliar in two Of the postoperatis nime and the matuliar in two Of the postoperatis of the matuliar in two Of the postoperation and it per cent an acute infection. Obstornation occurred in \$ \(\text{per} \) per cent of the case oper ted upon in ten 1 th tent two c se of init in all opera

tion and in eighteen of the twenty six cases of extranaxal operation

Cien told of a case of supra orbital neurolgia of frontal sinus origin

Photoco stoke of the langer of causing a fatal meningitis 1) opening into the cerebral cavity through an infectal pose

Swur stated that he pr fees the external methods operating on the frontal smus lie is n table fee with Swiez 1 proclur on the ethional and sphe in it in teal the west lachs nethod introducing a Mure ray curette under the end of mo plate will back and it hen we king I waward in John will be and then we king I waward in the word with the word will be a made in the weather the word of the ethiomold teells and pray might in the up thereal lat

sinus through the extern langle of the anterior wall By Kr Davis said that operation is oft in per firmed too soon in these conditions. He reported a case of meninguis following the rem val of judyplant elimical to curting which he belie es might have been and ded by preliminary cleaning for a few days.

Danson reported a similar case

However, stated that the Shifer operation is Jased on an error our juncile. In his oftimon intranaul sil enoe-thin il operation size in fleich the turb nal bodies and make it necessary to work with monotary upon in a fid which his some what to be cured by hemorthage and at a gerater datance than it the tri n at I method who the has I piet! He opens the ethin il sinus at the based of the piet internal angle of the antimum with Loc a forcept directing the forcept tward the part ist protuperation on the other sile of the heat I have been a silent to the control of the silent of the heat I have been a silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the silent of the heat I have been a silent of the sil

Woodman E. M: Suppurative Disease of the Upper Na al Sinu es J La y g l 6:0 l 1924 x x 3/5

Among the complications of supports on in the frontal sinus are frontal lobe absess and meningitis Woodman attributes the occurrence I osteomychitis after operati to the fact that the frintal sinus is situated ithin the diploe of the frontal bine serroral field J diploe vers fel by a network of external vessels and connected with the origin of external vessels and connected with the origin of the supports Origination also mad the tare matter by emitting the services and the supports of the support of the supports of the support of the supports of the support of the supports of the support of the support of the supports of the support of

rapid spread of infection. The its stating on the frontal sinus i indicated Woodman prefers Howarth's modification of the kill an operation in which the sinus is opened through its floor.

The ethmoid Woodman compares t a sponge Infection from the nose fils up the air cells with find and then receding I axes them full of latent infection or active suppuration D vi led old quely



Fig. 1 Trans error section through the nose showing the relation of the second a specially of the thomas the risk of the not reaches a title kull.



Fig 2 Vi w fth lateral ll fthe nose h wing the little fith fintal n st til ro dig structure dith tim te as what in betwee the thmodeells dithe anternorf sas of the sk li

by a shelf like partition than tero inferior portion controls the antium n1 the entrance to the front 1 dut while the poster uperior part is a close a lation to the sphen p latine ganglion and controls the phone 1 ft nus.

The relation of the ethinoid to the miners a through the thin portion of the crimial floor which forms the roof of the ethinoid and through the reinhoform plute must be for the studied Important fricts wo libed and for more receil microscopiciand mare the studies of the studies of the condition of the studies of the studies of the same and of sections of the sin as walls and of the bone lying between the c. ii. d. menings.

1 connect on between the ppu ating ethinoid and ca no inus the mbo ext maly prob



Fg 3 Photograph f the ethm id bo d from the pper aspect showing the enbriform ple te with is numerous pertue of rive is and ners a the rip ssage between the anterior fossa and the nos



Fig. 4. H rize tal section f the bas f the tore is as the k livie d form bo. The third implait has been remediated to the peet filter applied the thing d seen On the righth d de the coff of the obt has been remediate him to the been red to how the billion seles. The carolidatry is so seen

able the anastomoses being so timat and the

The rational treatment of cavernous thrombosis a radical spheno-ethmoid operation but unfortunately the cases reach the surgeon too late

The connection between the suppurating ethmoid and neuralgia must also be borne in mi d. The pain's described as being deep in the head between the eves and sometimes on the temples.



Fg 5 Ho zontal sect n f the no e and bt showing the lation f the thmod and the frontal sign stouch each nd to the pull y f the superior oblique m scles f the 5 b ll



Fg 6 Specim n ill trating the sph nopalatine ga gh n and it rel ti n t th tu binal bo es a d t th thmod. The vid n and d sc i g p latine nerves e low n lish wn



function is correct at follows that in an definite cale of hyperthyroidism the saturation of the thy roid cells with rodine will intensify the condition and conversely that in any case in which the thy to d can take up todine metabolize it and tore it in the colloid to its maximum capacity without any alteration in the rate of heat production in the body the thyroid : functioning normally

On the basi of these preliminary studies the authors feel ju tified in pursuing further the con ception that the re pon e of the organism to the admini tration of iodine may prove a dependable aid in the differential diagno is of doubtful case

presenting amptoms characteristic of mild h per the rold sm STANCEY I SPEGER M D

Hamilton B E Heart Failure of the Congestive ppe Caused by Hyperthyroldism J 4m M 19 4 1 1 40

True heart failure of the congestive type is found commonly in very few di eases. It is the usual terminal pictu e in rheumatic h art disease and fairly common in card or ascular aphilis in heart changes associated with arterio clero is and in conditions associated with prolonged by pertersion

Tone tates referable to the thy road gland cau e marked d sturbances of the heart. It has been tated that hen patients with hyperthy rouds in die they die of heart failure Such a statement is not talid uni es a clear definition of heart failure is made and adhered to All patients with hyperthyroid sm suffer from dyspner; and tachycardia which him t their activity to some degree but only a small rumber h te true heart failure

The author has studied the hearts in all cases of suspected the road disea e in Laher s of nic in the hast four years. He has found no s gnificant heart chappes attributable to thyroid dis a e either in doubtfully toxic or in definit ly non toxic cases Individual ca es may show cardiac chang sof various kinds but this is to be e pected in any large group of adults with an average age close to 40 years

In the definitely toxic cases significant heart changes were found in about 35 per cent first ign ficant heart change is auricular fibrillation This is at first trans ent but tends to become es tabl sted if the hyperthyroid in remains u checked If the hyperthy ro dism is relieved during the stage of tran ient attacks the conditi n permanently disappears in neutly every ase Similarly i many patients who are in the clinical stage of established auncular fibrillation normal rhythm returns per manent v

In ooo cases of thyro d disea e with some degree of toxicity th author found fifty w th signs of true congestive he rt failure due to hyperthy oidism With t it few except one the histories of thes lifty cases show predominance of symptoms refe able to the heart from early in the course of the disease The agrees with the chinically recognized selective action of hyperthyroid sni fo ce tain he ris Many of th se ca es a e diagn ed and t eated for a long period as cardiac cases the underlying by perthy roidism being overlooked

The fact that hyperthyroids in is one of few con ditions that tend to cause congesti e heart failure demands its consideration in any case in which the cause of the cardiac failure is not obvious Elevation of the basal metabolism may be of considerable confirmative value but readings as high as +64 do not prove a hyperthyradi m and estimations at least as low as + 16 do not exclude it The diagnosis depends rather on the careful evaluation of direct physical signs than on repeated indirect tests. These include auricular fibrillation trans ent or established and pigmentation. There must be all o emaciation or a history of a decided loss of weight

The condition occurs usually in women of er 35) ears of age (ofter and exophthalmos though of diagno tic aid if found are not commonly present in this group of cases An elevation of the heart rate in spite of rest and digitalization is a valuable sign but a slow heart rate does not exclude hyperthy roidism Longestive failure in spite of medical treatment directed to the heart is to be expected

The fifty patients hose cases are reviewed were given medical treatment including thorough digitalization Only eleven lost ill gross signs of true heart failure All were operated upon One died twelve hours after the operation. The others surused the operation but four have died since Ti o cannot be tr ced. The result in the remaining cas 5 has been very favo ble. The ratients with tran sient attacks of auricular fibrillation have cea ed to h e attacks. In at least one thi d of those with establi hed auricular fibrillation there has been a return to normal rhythm

STANLEY I SLEGER M D

Bircher E. Th. Pathology of the Thymns III Exp. rimental Basedow's Disea e and the Re Esp inmental placeur's Disea e and the Ace Lation of th Thymus to the Thyr id Gland (fur I thol ga d's Thym's III Experment II r M b Ba edow, and B chu g de Thymus ur S hildd u) D i k 21 k f Ck 193

been so

The author first touches briefly upon the com bined influence of various glands of internal s cre tion on the origin of Basedon s discase when a con stitutional predispo ition to the condition is present In animal experimentation the predisposition can not be determined it is d covered by chance In 1912 Bircher reported experiments in which he produced the complete picture of Basedow's disease in dogs by the implantation of thy mus. In the choice of the dogs pains were taken to select first those of an e citable and restless type and second those in which inbreeding had caused degeneration of the nervou system. Most of the animal were females It s as found to be of importance whether the im plantation material was taken from the patholog ically altered thymus gland of a person with Base dow's disease or i om a health; child The experi ments are reported in detail with illust ation

Following the implantation a feude i increase in the frequency of the pulse and an increased cardiac apex beat were note ! In three cases the eves were distinctly lustrous In two cases there was a ly my ho cy tosis with leucopænia After the tenth to twelfth day there appeared a distinctly defined sterims of soft con istency Distinct nervous disturbances were also present. In three cases the picture was very marked in three others the symptoms were present but not marked The three marked cases were cases in which the implant was a large piece of the thymus gland from an a lult who had ded a thymic death In the three other desa small piece of thymus from a child was implante? The positive results are therefore to be ascribed to the very path ol greal transplanted material which cau ed a pronounced hyperthy muzation

The implantation of the ths mus introduces into a body not prepared to resist it to c materials of an altered and increased th) mus exerction. There then develops an intoraction with alteration of the internal secretion (enlargement of the thyroif glant changes of a hoplastic nature in the s prarenal glands). This is a proof that the thy mus inducence the endocrine system and supports the theory of a thy mogenous Bisedow a disease. The rolle of the thin mus like that of the thyroid is secondary the

primary rôle is play el by the constitut on The clinical results obtained have re evid strong s proof from the histological picture of some of the glands of internal secretion. The bit of giral picture of the thyroid gland showed it to be nich in foll cular issue with cj jidrical in places mans layered orde ma numerous flittig tebules and a large amount of solid gland tissue. Desquantion was also observed but only a relatively small amount of colloid was present. The superareal glands aboved complete hypoplass of the medium profession. In two processing the properties of the medium profession. In the control of the medium profession in the process presented the nature of attornal states of the medium profession. In the properties of the medium profession in the process presented the nature of attornal states of the following and a remarkabil. Teduction in the islands of larger has and the splene aboved a decrease in the nature of the following. Therefore the entire lymbate system was considered in the nature of the following the state of the

In two cases the transplant was taken from per sons 18 and 13 pers of age respect vely. These transplants showed considerable cortical hyperplasis with signs of beginning involution. On this must taken from a child show ed marked medullary hyp r

plasta

Further research is necessary to determine whether
there is any connection between these experiment
ally produced cases of Basedow's discase and the
picture of thymic death occurring sudde by after
operation in Basedow's discase.

To obtain a distinct picture of by perhymination the entire thyroid gland was estimated from an mals into which thymus had been transplanted All three animals died after from eight to ten days with symptoms of card ac nisulf energy a rependence of the thyroid let to a gradual ded; ever a period of the thyroid let to a gradual ded; ever a period

of a year. The supposition that the conditions which excloped in the experimental annuals after the extrapation of the third of was true hyperthymistion is supported by the experiments of itselfs with the injection of juic express of from the thyrour. The effects of hyperthymistion are explained by direct action on the vascular system but thereby by indirect action on the vascular system but the by indirection on the vascular system but the thyrour action on the vascular system but the third in the baseline of the control of

On the has is of twenty four cases with gotter the author discusses the colonednees of enlargement of the this mus and of the thy road and the relations of the one to the other. He comes to the cond is on that perustence of the this mus is a relatively if quent finding in e. lemic goiver particularly in quent finding in e. lemic goiver particularly in on the changes in the g. tier could not be determined in the encorromatis reported. Hassia v. (2).

Holmes G W. Mean J H. Porter C A. Rich ardson E P. and Starr M. P. On the Treat ment of Ex phthalmic Goiter. Bot. M. & S. J. 1022 C Cl. 201

In the authors opinion the best treatment for e of hthalmic porter is jodinization follo ed by subtotal thyroidectomy while the metabolism is normal The I ray at Il has a place in the s eatment when operation is under r ble or is refused by the pat ent Iodine has not been found to contribute to the suc cess of irra liation The methods of applying irrad a tion are still more or less in the c perimental stage In con lusion the authors emphasize that the use of todine is essentilly a m asure preparatory for perat on not a curative measure Iod ne should be given only hen oper tion is to be performed immediat ly afterward. The time of operation should be selected with care as it m v be imposs ble to obt in an iod ne remi si na sec nd time or at least not until after a long period without iod e

A THE LS R FFLER MD

Young T O A Consideration of Postoperati e
Complication F II wing Thyroldectomy
If 1 V d 9 4 i 5 4

The present-day interp etation of surg cal complications following thyroidections is raid cally (4) ferent from that of ten or fifteen v are ago and with registrom. It is also must be a controlly all of the latter are due to gary of their currently all of the latter are due to gary of their current largaged ancree or pressure on the tracker from clot formation in hemorrhage. Many surgical complications do not markedly affect the mortality rates: ce they are not the complication of the complication of the theoretical complication of the complication of the the pattern is future well r a day the form that of the the pattern is future well r a day the form that of is injury to the recurrent lary ngeal herve. Accurate theckin by laryingoscopic examination is the only method of determining the degree and type of insolvement of the vocal cord on this the prognosis depends.

Erecke 4 The Treatment of Postoperative Tet any by Transplantation of the Parathyroterative Tetane mit der L bernel nau g on I ferdeep thelloerperchen) Ze 1 abl f Ck 194 li 39

Since all the parathy roof cannot be removed from hung men and as the removal of even one mass tasse tetan), a substitute must be found for them. The most sutable substitutes the tetange has a they are very large and the fact of the horse as they are very large and the case of postoper the tetany by the implantation of the parathy roof of the horse. There are entirely cured and two of the cures have lasted for one and one half learn.

Case I was that of a 14 year-old gu! who exhibited marked tetany on the fourth day after bilateral struenctomy with ligation of all four vessels. The implantation was done eight days after the operation. The patient was free from convul ions the following day and has remained well to date.

Case 2 was that of a boy 17 years old who was subjected to the more of a medium sized bilateral soiler Tetany appeared the day after the opera tion Twenty days later as the attacks were become ing more seet two parathyr of were implanted. The implantation was followed by immediate improvement and the resulting cure has continued to

Case 3 was that of a 50-year old wom n subjected to resection of both hal es of the thy roof with light ion of all four oresets? Terms began on the s at the day after the original following transient improvement recurrence of the attacks led to the implantation operation about 1 months later. The patient has flow been curied for a period of eighteen months.

Case 4 was the case of a 15 year-old woman The fit lobe of the thyroid was removed first and subsequently the right lobe was resected. Tetany decloped four days after the second general was overrome to some extent by the usual treatment with calcum and afruil Late the tet my recurred. Since the implantation operation there has been no further sensus trainly.

Case 5 was that of a 31 year old woman who was subjected to bliefar lesection of a medium sized struma in 1917. The inferior tery was not ligated Mild attacks of tetlany began the fourth day after the operat on and gradually became more severe Ending the operation of two parathyroids was done but was without effect.

The parathyroids implanted were removed ster ite at the slaught r h use and embedded under local anasthesia in the prepention l ti sue b tween the umb | cus and mphys s Von Tappenrix (2)

Aramer R and lankauer S Lymphangioma of the Latynx Lary g : ope 1924 xxxiv 62

Lymphangioma of the larynx is a rare condition only ten cases having been reported

This type of tumor occurs more frequently in the tongue lips neck extremities and sacral region Four types have been de cribed the simple cavernous hypertrophic and cystic

The underlying cau e of hymphangioma is un known. A large number of the growths are of con genital origin but some do not appear until adult life.

Kramer and Vanhauer report two cases of by mphangooms of the larn ap proved by microscopic examination. One of the patients was not seen again after the removal of the growth. The other has been free from recurrence for seven years. In both cases the growth was remo ed with cutting forceps by indirect lart posscopy. The choice of the method must be determined by the size of the tumor and the nature of its attachment.

JAMES C BRASWELL M D

Pentecost R S Tuberculosis of the Larynx-lts
Diagnosis and Treatment C dian M Ass J
19 4 x1 074

Pentecost urges clo er co operation between the physician and laryngologist in cases of tuberculosis of the larynx

As early recognition of tuberculous involvement of the larynx a most desirable regular lary ngological examination should be made in all cases of pulmonary tuberculosis

The policy of laisser faire should be replaced by active local treatment

In a large percentage of cases of lary ngeal tuber culoss the condition may be completely arrested by (a) by genue and dietetic treatment (b) absolute vocal rest (c) appropriate treatment of any associated pathological condition in the upper respiratory act (d) belotherapy and (e) the application of the galanocautery to the affected areas in the large

In the use of the galvanocauter, the author uses the indirect method puncturing in two or three places on one side of the lary nr. After a period of a week or ten days he treats the other side similarly

As to the results he says Provided the patient's general vitability and nutrition are fairly good 75 per cent of cases of laryngeal tuberculosis in the incipient or moderately ad anced stage can be completely arrested and go per cent can be materially improved by the employment of the cautery in local treatment.

Strandberg O Injury to the Larynx Induced by \ Ray Treatment J Lay g l & Ot l 1924

The author reports the case of a patient who was given \ raj treatment for ly mphoma in the front of the neck and became hoarse Eight months after the last \ raj treatment he complained of pain in

the throat and dyspacea. The cause was believed to be tuberculosis of the larvnx but on examination no evidence of tuberculo is could be found. H sto logical examinations of several pieces of the mucous membrane of the larvax showed no tuberculosis or

cancer but revealed changes due to the \ rays
Injuries to the laryng caused by the \ ray vary in character The early reaction may appear from one to three days after the treatment. The true ray reaction of the larynx appears from ten to twenty days after the b ginning of the radiation The ordema may be serious but as a rule di appears thin from ten to fourteen days The late react on of the lary nx may be considered very scrious. It is not possible to say how long after one or several irradiations the third reaction may appear The late reaction will be found in the muscles perichondrium and glands whereas the early reactions appear in the skin and subcutaneous tissue. The late reaction may not be preceded by other reactions

TAMES C BRASWELL, M D

Novak F J Jr Cancer from the Standpoint of the Otolaryngologist 15 sco M J 1014 Y 1 10

Prevention of cancer of the lary ny is based on the elimination of the causes of chronic irritation by proper vocal zation periodic rest of the voice the elimination of chronic suppurative posterior para nasal sinus disease the r moval of diseased tons is in persons of cancer age and proper management of syphilitic lesions of the laryny

In the treatment of the cancer itself Novak pre fers surgical diathermy otherwise known as electro coagulation to the usual surgical methods because he believes that in the field of otolaryngology it is mechanically impossible to remove the region l lymphatic structures completely The method he employs is described as follows

Two electrodes are us d One of them a very large indifferent electrode is applied to the nationt's back The other a small button or ball electrode is applied successively to various parts of the tumor Sufficient current usually about 1 300 ma 1 used to congulate a portion of the growth about t ice as large as the small electrode in about twenty seconds The electrode is then moved to an adjacent part of the tumor and the process repeated

When the entire tumor is coagulated the coagu lum is removed by curettage and the site of the neoplasm is again heated through for a period of five or ten minutes Dun g the second heating the temperature is not raised a fficiently to cause coagu

lation. The anaesthetic of choice is chloroform Diathermy followed by radiation has the follow

- 1 There is no d spers on of metastases
 2 It is a simple and blocal ing advantages
 - It is a simple and bloodless procedure
- 3 It removes the tumor as completely as surgery
- 4 The radiating heat f om the field of coagula tion exerts an inhibitory effect upon the vagrant ne cell in th periphery of the tumo OTTO M ROTT MD

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Lockyer C Holland E Cameron H C and Others Discussion on Birth Injuries with Special Reference to Intracranial Injuries with Bizmorthage and to Nerve Injuries P oc Roy Soc II d Lond 1924 xvn S t Study Ds Child Neurol Obst & Gynace and O thop z

With a summary of the work of Spencer on visceral hamorrhages in stillborn children based on 130 autopsies the authors presented a symposium on birth injuries

HOLLAND reported that in a series of meanatal deaths and stillbirths cerebral hæmorrhage occurred in 55 per cent Subdural hæmorrhage was the most common type and the ventricular and inter titial

types were next in order

Cerebral hæmorrhage : of traumati or asphy aial onga In the former there is u ually tearing of the tentonum cerebelli or falx cerebri from excessive elongation of the head in the ertical direction as in vertex and breech presentations While hæmorrhage is frequently found at the site of the tear this is not al vays true and in itself the bleeding may not be particularly senous Rupture of the tentonum cerebelli however removes the chief restraint to excessive molding of the head so that rupture of the terebral veins as they enter the longitudinal sinus or the vein of Galen is favored Infants dyi g of asphyna may show cerebral hamorrhage and in addition multiple petechial hæmo rhages on the surfa e of certain organs such as the lungs liver and thy mus

CAMEROY stated that subdural harmorrhag in the newborn may supervene in or after a normal labor as will as after percept acte labor. With budging of a will as after percept acte labor. With budging of signal fluid and in nearly half of the cases and the state of the case of the cases. Marmorrh go or more rarely ordenne of the cases. The case of the cas

While e cht cases in which the d agn sas of sub dural hemationa was made were all fatal it seems et tan that hemorrhages of lesser ettent may not accept the sensorin tor de elopment in these cases is markedly retarded but the ultimate loss may not be so great. The majority come under treatment for the spastic ondition of the limbs

COLLEG commenting on the observation of Cameron that endema of the d ks occurs in subdural hemorrhage stated that he had never seen optic neuritis until the skull was closed

The postmortem finds gs do not support the be lief so long held that all infantil hem plegic and

diplegic spassic states dating from birth are due to meningeal himorrhage. With Little Collier believes they are the result of asphy in neonatorium which causes small himorrhages throughout the nervous system vith subsequent, cleross and atrohy. Honever 60 cr cent of all spassic states dating from birth have a history of some abnormality in the proces of birth. Today the cerebral defectand abnormal labor are looked upon as the expression of a deep pathological influence at work between the mother and off pring rather than the direct result of in accident of labor.

In considering injuries of the cranial nerves during birth it must be borne in mind that conjenital ab ence of these nerves may account for a perma

nent defect

FAIRBANK supports the theory that the primary cau e of birth palsy is strain on the corl of the brachial plexu not injury to the shoulder joint with subsequent injury of the pletus. The upper arm type of paraly is is the most common The treat ment consists in fixation of the arm in a position re laying the paralyzed muscles vith mas age and the prevention of contracture Three months is usually a sufficient time to wait for maximum improvement. to take place before resort is had to operative meas In untreated cases posterior subluvation of the shoulder joint is very apt to occur as the condition of the mu cles least affected by the birth pal v becomes improved. After open reduction with division of the tendon of the subscapulari muscle and the contracted antenor part of the joint capsule the arm should be fi ed in external rotation and abduc tion for three or four weeks

LUMSDEN defined appear tic respiration as a type in which a steady deep inspiration is taken and retained the chest maintains the in piratory position for two or three minutes until asphyxia supervenes and then s nks slowly a few gasps are taken and the cycle is repeated for a few hours finally giving way to expiratory pasm and gasp ng Experimentally produced apneustic respiration can be overcome by continuous ventilation of the lung. The inspiratory tonus then lasts indefinitely. Stimulation of the vagus under such conditions induces again a fairly normal type of respiration Clinically it may be ass med that when normal respiration 1 maintained in the presence of intracranial hamorrhage, the brain stem i not in olved Appeustic respiration points to harmorrhag in the pons. When only expiratory pasms and gasping occur the damage is at the level of the strize Ga ping alone indicates that the domi nant hamorrhage is near the apex of the calamus scriptorius

STRACHAN emphasized the importance of prophylactic external version in all cases of breech presenta tion especially those of primiparæ since in these the liability to cerebral hæmorrhage is eight times

greater than in vertex presentations

MEYERS stated that orthopedic measures often give relief in spastic paraplegia and are of value in spite of mental impairment NELLANP SAN BAGENEY WD

Smith S MacC A Consideration of Otitic B in Abscess with Speci 1 Reference to Diagnosis nd Locali ation Presentation of Cases and Specimens La , g sc p 1924 Extry 534

The first consideration in otitic infection especially that of the recurring type is to determine the presence of complicating cerebral suppuration i.e. temporosphenoidal or cerebellar abscess possible before compression is manifest even in cases developing slowly by careful chinical obser vation and Vestibular tests

The initial stage of cerebral supportation is charactenzed by headache fever chills or chilly sensa tions and periodic vomiting

The latent stage which is often of considerable length is characterized by ill health with periodic he dache and a slow change in the nationt's mental and physical babits

The stage of manifest symptoms causes general debility weariness malaise and loss of weight and in children sometimes convulsions Subnormal temperature-characteristic of brain abscess-oc curs only when the dura is not involved. Convul sions especially when they are associated with other suggestive symptoms are almost path gaomonic of abscess formation especially in children suffering from chronic otorrheea. In adults they are very infrequent

Optic neuritis which is not found in simple internal aural suppuration is helpful in the diag nosis of abscess. It may be bulateral or present only on the side of the lesion

Enlargement of the deep cervical gland is fre quently the first sign of intracramal suppuration and when associated with otorrhora warrants care ful consideration

After it has been decided that ce ebral suppura tion is present the second consideration is its loca tion. The ratio of temperosphene dal absress to ce ebellar abscess is about 8 i in children and approximately 2 t in adults Indications of a temporospheno dal abscess are symptoms of com pression a subnormal pulse temperature and respiration and paraly is of the opposite side When the abscess is situated on the left side there may be aphasia. Slowly developing contra lateral facial palsy associated with otorrhora recur rent attacks of stupor and developing halluci nations is very characteristic of temporosphenoidal abscess

The cerebellum may be reasonably excluded if vertigo and past pointing can be produced by caloric or rotary stimulation of the labyrinth On the other hand rotary nystagmus toward the affected side with a dead labyrinth suggests that the abscess is in the cerebellum Sinus thrombosis or a dead labyranth with evidence of intradural suppura tion suggests that the lesion is in the cerebellum In simple internal suppuration there is absence of optic neuritis and the gait is a sway or a swagger

Vestibular tests therefore may indicate an intra cranial lesion and on the basis of the history and clinical findings this may be diagnosed as an abscess The reaction of the laby math to stimulation should be determined prior to a mastoul operation for chronic otorrhoea since it may be the only clue to

intracranial disease Unitable P. Lan Backwey, M.D.

Concerning Papillosiema in Elsberg C Tumors of the Brain and Its Surgical Treat

ment Ar h Ophth 1924 in 3 7 It is generally agreed that papillordema whether it occurs early or late in the course of intractamal expanding lesions must be considered a 1 to symptom of brain tumor. Obviously then the opportune time for treatment is when the eye grounds are normal or only slightly th nged So characteristic are the signs and symptoms of tumors of the cerebellopontine angle that operation should easily precede obstruction to the sylvian aqueduct or impingement on the side of the pons or medulla. In lateral recess tumors papilledema may be sudden in onset and rap d in progress. A fact regard ug these tumors which is as yet unex pl med is the frequently greater advancement of papillordema on the side on which the tumo is situated

In cases of supratentorial growths the degree of swelling of the two disks varies greatly Presumably this is due to the fact that bere intracramal pressu e depends on a combinat on of factors viz the amount of internal hydrocephal a the degree of hyperplasia of the affected hemisphere and the siz of th tumor The pressure of the tumor itself may cause a predominating hom lateral cedema of the disk. Distention of the contralateral ventucle may cause a greater swell ng on that side In gen eral however it may be said that ce ebral tumors which he at the greatest distance from the midine are most apt to caus papilled ma which is equally ad anced in both eves Cases of fr tal lobe turn is show not rarely a

homolateral pallor or optic trophy of the disk and a slight papillurdems in the prosite side. The same cond t n is occasionally found n cases of suprasellar gro the in which a p pillordema is superimposed on a p ceding optic pallor some cases of brain tumor p p loed ma may be absent because of tensive brain atrophy secondary to occlusion of a cerebral tery by the growth

Appropriate ea ly operative a d dec mpressive measures can pre ent blindness i the mai rity of cases nd ex t a marked be final a ton po

fundus changes when the tumor cannot be removed Spinal puncture intravenous injections of hyper took solutions and the administration of magnesium sulphate by mouth or of hypertonic salt solution by return may be done as temporating measures until suitable diagnostic studies can be carried out

When blindness has once occurred even for a fee hours no vio will ever return. The time that dipses before the disks are again flat after marked populardems may be several months but the initial reduction may be 3 or 3 diopters in a week. In finding supericultural growths the recession of finding the properties of the properties of the greater multipliest year. In the properties of the window with the properties of the properties of the window with the properties of the properties of the proterior multipliest year.

Hughson W Meningeal Relations of the Hy pophysis Cerebri Bull Jok : Hopkin: Hop Balt 1922 XX v 12

The usual general descriptions of the relations of the meanings fail to make any reference to their distribution about the pituitary. Since the stalk of Rathke's pouch disappears before the brain of the submo is completely surrounded by its meaningeal over the property of the property of the property of the submarkhood space invests the hypophysic.

He was able to demonstrate this relation of the subarachnoid space to the pitu tary by the injection and precipitation of Prussian blue Passage of fluid from the subarachnoid space into the substance of the gland has been shown LOYALE DAVIS MD

liorrax G Generalized Ci ternal Arachnoiditis Simulating Cerebellar Tumor Its Surgical Treatment and 1 and Results A & S 1 9 4

The author reports a series of thirty three case with a presuppive diagnoss of brain tumor in which operation revealed only a greatly dilated posterior custers with thickened ara hood membrane containing pent up cerebro p nal flut d under present of the partiest dided two of them a fear day of the pattents dided two of them a fear day of the pattents dided two of them a fear day of the pattents did to the earlier the operation and the fear of the pattents of the sime see that the content of the pattents o

Histol goal exam nation of a piece of the arealond wall temoved at operation show ad nothing more than the slight the deeming that was evulent grossly Sork evidence coupled with the subsequent in provement or entire relief of symptoms over long the continuous and the co

The use of lumbar puncture as a diagnost c measu e in this condition is associated with the danger of foraminal herniation of the cerebellum In the cases reviewed the procedure of choice was exploration of the suboccipital region and in the ab ence of tumor wide opening of the arachnoid cisteriae with evacuation of their contents

WILLIAM E SHACKLETON M D

Royster L T Report of a Case of Streptococcic Meningitis Treated with Injections of Gentian Violet A J D : Ch ld 19 4 xx 1 34

Royster reports a definite modification of the course of a fatal case of streptococcus meningitis by the intraspinal injection of gentian violet solutions

The patient was a boy 2 vears old. On his and mis not to the hospital five days after an abrasion to an upper eyel d he was semi unconscious and presented the typical signs of meningitis. Smears and a culture of the spinal fluid and of the pus from a complicating orbital abscess showed the organism to be a Gram positive streptococcus hemolyticus. The patient is condition was so semous that it was believed he would like only a few hours. Apparently as the result of gentian voide treatment he liked for meningitis were either slight or absent and the snal fluid cell count was decidedly reduced.

The intraspinal dosage ranged from 004 to 016 mgm administered once or twice a day Six intra muscular injections of 20 mgm each and three intravenous injections of from 20 to 40 mgm were siven in addition.

The author states that the injections of the gentian violet into the sp nal canal did not cause any reaction or irritation and beheves that larger doses might have been more efficient

HITTER P LAY HAGEVEY M D

PERIPHERAL NERVES

Dowman C E and Hoke M The Treatment of Spastic Paralysis A h Su g 19 4 1 45

This article is based on the results of a study of 23 cases of infantle cerebral paralysis. It appears that the cond toon may be the result of preciatal natal and postnatal factors. In the cases reviewed the prenatal causes were encephalo meningitis intraction of the control of the present continued from health of the other trains continued from health of the other trains continued from the present

The chincal pictures presented in cases of infantic cerebral paralysis are those caused by praemabil tract lessons those caused by cattrapy rambal tract lessons and a type produced by both a paramabl and extrapy rambal tract lesson. Only the case belonging to the class of pyramadal tract lessons are some control of the

The three important features in the treatment of spastic paralysis are (1) relaxation of certain

groups of muscles by means of neurectomy (2) the correction of fixed deformities and unstable feet by means of orthopedic operations and (3) the use of physical training to teach the child to walk after the employment of the operative measures

The authors report eighteen surgically treated cases. The results seem to justify the combination

of operative procedures described

LOYAL E DAVI M D

Mckenzie k. G : Intrameningeal Di i ion of the Spin ! Accessory and Roots of the Upper Cervical Nerves for the Treatment of Spas modic Torticollis S & Gy & Ob! 1924

In a case of painful spasmodic torticollis of unknoy n origin which was operated upon by the

author there was still no recurrence of the pain or pasm one year after the operation

In Mckenzie's opinion the muscles which may be involved in various combinations to produce a torticollis are the two sternomastoids and the group of large neck muscles attached to the

In the past surgical treatment for this condition was confined to section of the motor nerve supply and division of the muscle itself. In the case cite t the posterior and anterior roots of the upper three cervical nerves on one side were divided in addition to the spinal accessory Mckenzie suggests that section of only the posterior roots would reheve the spasm in the posterior spinal muscles and would thus leave their active motor function. In such an operative procedure the spinal accessory is not taken into consideration as fully perhaps as its rôle justifies LOYAL E DAVIS M D

Off W O The Surgical Tre Iment of Solitaty Tumors of the Peripheral Nerves Te J M 1924 ZZ 7

The diagnosis of solit ry tumors of peripheral nerves can usually be made without difficulty on the bas s of the following findings

A tumor in the region of a nerve Mobility of the tumor at right angles to the c urse of the nerve but not along its longitudinal

axis 3 Pain usually at the site of the tumor and along the peripheral distribution of the nerve 1 hich 19 felt on pressure over the area of the tumor on

mote n of the part or on injury 4 Absence of motor and sensors paralys's of the affected nerve or its presence to only a light

A history of long duration and slow progre s In cases of primary sarcoma pain located at the sice of the tumor and usually radiating along the periph eral distribution of the nerves is an early symp

tom Of the author's thelve cases nine were cases of solitary neurofibromata one was a case of hæman groma and two were cases of sarcoma

When at operation the diagnosis of neurofibroma seems certain the capsule should be all thoughtude nally and the tumor shelled out if it affects an important motor or mixed nerve A tumor involving an unimportant sensory branch may be excised. In cases of definitely malignant tumors wide excision of the growth is and cated and sometimes amputation of the extremity may be necessary

WILLIAM P LAY IS GEVEY MD

Turner II Nerve Injury in a Typical Fracture of the Radius (U b > v schædigu g n beim of the Radius (U b \ re schædigu g n beim typ sche R d bru h) A ch J ki Chr 924 CXX\111 422

The importance of nerve complications in fractures of the upper arm is to ornized but little is known regarding perve lesions in typical fractures of th radius Although such lesions are not rare they are usually overlooked and must be sought for with care The terminal fibers of the dorsal inter osseous nerve are most commonly caught at the point of fracture The signs which follow a c of a vasomotor and trophic nature. They appear uso ally after days or weeks as a firm ordema of the back of the hand and the surround ne forearm contrac ture of the fing rs and stiffness of the wrist joint The region of the imprisoned nerve end ags is pain ful to pressure

In the X ray picture atrophy of the metacarpal bones is evilent and the articular surf e of the radius is not clearly defined Of note is the f ct that the distal row of carnal bones show more sie !! than the protunal row Th auth I has seen a sum lar cedema about the hand with similar impair ment of functio of the v r st joint in three cases of cat b te He beheves there was a direct as well as a toxic injury of the dorsal interosseous n rie. Such an injury with its results may well be looked upon as a trophoneurosis The prognosis is relatively uncertain Turner suggests that a resection of the d sal interesseous nerve might bring about in Li LLD & MD provement

SYMPATHETIC NERVES

yle N D Tie Operation of Symp thetic Ramise-tion Med J A tr i 9 4 587 Royle N D

of Procedure On the Chol Hunter J I Adopted in the Op r ti n of R misection for S ptic Paralysi &fed J 4 / al 9 4 59

ROYLE states that ance I first eport of the treatment of spastic pa lysis by sympathet c fam sectomy he h s performed a la g n mb of opera tions on patients of d ff r nt ages and the informa t on gained h s made t po sible for him to improve the technique and lay down principl's f surgical procedure. This a t cl. which do not lend itself. to abstracting describes the technique of lumbar and cervs al ramisectomy in d tail as practised at th pre ent time

HUNTER repo to th t in Royle's op rat o for the relief of spastic paralysis only the ami communi

ciples are divided whereas in the first operations the rams of the second third and fourth lumbar ganglia and the sympathetic trunk below the fourth lumbar ganghon were cut Section of the econd third and fourth lumbar ganglia removes the influence of the sympathetic system from the muscles innervated by the upper part of the lumbar plexus It avoids in jury to the hypogastric nerves which communicate with the hypogastric plexus and supply the bladder and rectum bection of the white rami of the upper lumbar nerves removes part of the influence of the hypogastric nerves as evidenced by the relief of con supation resulting from increased activity of the pelvic nerves of the cramosacral division bection of the s mpathetic trunk and removal of the grav ramus of the fourth lumbar nerves affects the mus tles supplied by the sciatic nerve and its branches For the relief of spastic paralysis of the upper ex tremity the rami communicantes only are sectioned There are no white rami in the cervical region except the ramus of the first thoracic spinal nerve

LOYAL E DAVIS M D

Floercken II The Technique of Resection of the Cerrical Sympath to (Zur T hnik d r Resektion des II Leympath) 7 talbl f Ch 9 4

The author has resected the cervical sympathetic in four cases-in three for angina pectoris and in one for pronounced bronchial asthma Of the cases of angina pectoris two had only transitory results because only a portion of the stellate ganglion was removed The third case showed definite improve ment six weeks after the ope ation. In the case of bronchial asthma the pa modic attacks of dyspnora were relieved

Floercken advises against local anæsthe a He performs the operation under ethe -ovigen anas thesia with a preliminary hypodermic injection of atropine Since removal of the stellate ganglion is essential it is necessary to make an adequate in cision along the anterior or posterior border of the sternocleulomastoid muscle

Floercken proposes that the same muscle plastic incision which de Quervain and Kuettner have advocated he used for wide exposure of the struc tures in the triangles of the neck The skin in ci ion extend from the masterd process downward along the anterior border of the sternocleido mastoid and turns laterally at a point two finger breadths above the clavicle. The anterior muscle edges are freed and both portions divided over a Kocher dissector. The skin and muscle flaps are then retracted posteriorly 1th the accessory nerve If the omehyord is masked by coarse fibers these fibers are divided

Upon the medial aspect of the ve sel the chain is found and followed to the superior ganglion. The latter is divided in its center. At the level of the medial ganglion the laterally coursing inferior thy roid artery is divided. The chain is then caught with a fine hamostat and dissected down to the stellate ganglion which is freed from its connections with the vagus Usually the first thoracic ganglion in clo e relation to the stellate ganglion. The lower the resection can be made the better are the results of the operation. Upon the left side the thoracic duct can be early avoided

For angina pectori resection of the depressor nerve is advised. At the same time the superior lars need nerve should be freed in order that undue manipulation of this nerve and the varus may be avoided

Penartenal sympathectomy of the carotid artery may be done in angina pector as Bruning suggest ed but Borchard has warned against the dangers produced by arteriosclerotic changes in the vessels

LOYAL E DAVIS M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bartlett E I The Treatment of Blue Dome Cyst
J im M Ass 19 4 ltx 343

Blue dome cyst 1 c a retention cyst occurring during involution or due to hypertrophy and abnormal secretion is not a true neoplasm. Local retainent is not indicated except for cosmetic or psychic reasons. The practical problem is difficult because a positive clinical diagnosis is impossible of cannot always of derentiate between beinging cannot are consecutive of the psychiatric problems or cannot always of the control with psychioma or cannot are consecutive.

The differential diagnoss between papillomatous of sta and blue dome cyst is complicated. Sin and supple changes may be absent in a mabignant cyst. The shape and consistency of the tumor are fallactous gundes and aspiration is unsafe and inconsistence Cancer frequently develops from intracystic papillomatia straw colored fluid does not expert the consistency and indicarmental receilum is damperous.

Surgery is usually necessary to establish the dagnosis. The nature of the cyst is revealed by evacuation of the contents by radial incisions. When a blue dome cyst is found simple stripping of the wall and good closure are all that is necessary that the content of the breat should be a well as the content of the breat should be a well as malignant die as e the complete operation is sud cated. M. I. Masor M.D.

Yoon C Pathologico-Anatomical Research on the Routes of Distribution of Carcinoma of the Breast (P th 1 gr b natomische U t rsu bu g eb r di Veb et gaw ge des Mamm cnn m) B t & Chr 19 3 Cs x 4/3

In order to determine the cond toms active in cases of recurrence following amputation of the breast the author studied an w the anatomy of the highly system. In these investigations it was found that the superficial lymph vessel after passing the Paramanianary and supramaminary lymph glands empty into the author by mph gland and at the midner cross over to the opposite side & second group piece the pectorals faste into the musicalistic and flow of the pectorals after into the distribution of the pectoral side of the case of the pectoral side of the case of the pectoral side of the case of the pectoral side of the case of the pectoral side of the case of the pectoral side of the cost of the pectoral side of the cost of the pectoral side of the pectoral si

The author discusses the r lations of the blood vessels and musculature and describes the manner in which metastases are form d in different a cas on the bas s of twenty five c ses in which micro

scopic studies were made. It was found that the carcinoma cells spread in the muscle tissue in the tissue spaces the jumph and blood vessels and the sarcolemma sheaths. Therefore it is important out away the serrations of the pectoralis directly to the costal benosterin

In order not to open the lymph vessels the author makes a longitudinal me; on in the parastreating makes a longitudinal me; on in the parastreating from the clavicle nearly to the costal arch and from this two incisions entercing the breast with their spex in the artilla. For absolute certainty the second third and fourth intercostal muscles and the sade giving good exposure these incisions permit the removal of the infraclavicular and supractive user good exposure these incisions permit the removal of the infraclavicular and supractive user glass giving good exposure these incisions permit the removal of the infraclavicular and supractive user glass given to the property of the support of the infraclavicular and supractive user given the support of the infraclavicular and supractive user given the support of the suppor

TRACHEA LUNGS AND PLEURA Alexander J The Surgery of Pulm nary Tube

Cauties 4 m J M S_c o₄ k r u 8s Cauties whose wall are not very still far oblier sted to mere clefts by successful thoracoplast. The uncompressed lung compensates for the compressed lung by become ng huge with emphysema and hyperplasts in Brauers opmon no note worthy functional demand is roade upon the fractioning lung in a resting patient except immediately after operation. Sawe brach states that the uncompensed lung moves considerably more after operation and that as the causes a mo e rapid flow of 1 poph dissemination of the climater operation and that is the causes a mo e rapid flow of 1 poph dissemination of the film. Therefore it is most important that the b titer lung be entirely recomposited the property of the pr

At present the working rule is that thoracoplasty is rever to be done when a satisfactory artificial pretumothorax is obtainable. The number of patients whose pulmonary disease is sufficiently unlateral to warrant compression of one lung steman stempor of artificial pretumothorax is a sufficient to the sufficient of

continued a per cent of tuberculous patients are suitable for an great fleerapy. Numerous series f cases show that the final results of pneutonohors, and of thorocopolasty are about the s rise a cure being obtained in 35 per cent when the property of the series of the

ing and as it produces compression gradually is free from the danger of acute circulators and respiratory disturbances and of pneumonia from the aspiration of large amounts of expressed secretions Moreover as the accumulated toxins are squeezed out into the circulation gradually there is less dan ger of lighting up other foci If necessary pneu motherax can usually be released

Although thoracoplasty upon tuberculous pa tients is a major operation with a mortality of from I to to per cent its performance in several stages has made it remarkably safe. While the operation of artificial pneumothorax is an essentially trivial procedure gas embolus and pleural eclampsia are true dangers. It is generally estimated that serous effusions are formed in so per cent of cases of pneumothorax Mckinnie estimates that 5 per cent of these effusions become purulent Of Sauer bruch's seventy three cases of cavity rupture fifty seven were caused by attempts to stretch adhesions

The mortality was 86 per cent

Frequently the immediate results of pneumotho rax are so satisfactory to the patient that he fails to return for the necessary continuation of treatment As thoracoplasty when once done is done perma nently it may be indicated for persons who might be expected to abandon pneumothorax treatment prematurely It is preferable to the operation of intrapleural pneumolysis or the use of the Jacobaeus thoracoscope and cautery for adhesions and will col I pse certain thick walled cavities which are not af fected by artificial pneumothorax

Surgical compression is indicated for largely unilateral lesions when all other tr atment includ ing a sufficiently long sanatorium régime and at tempts to induce artificial pneumothorax have lailed Operation should be firmited to patients between 15 and 45 years old. It is especially indi cated in ca es of marked basal lesions Better results are obtained from ope ation on the left lung than from operation on the right. It is important that the lesions be predominantly chronic and fibrous rather than rapidly progres ive and caseous as the latter do not respond favorably to compression

Some form of surgical comp ession is indicated al o for cases of recurrent severe hamoptysis in which artific al pne imothorax cannot be produced Pribram a vises trying minor ph enicotomy before using more severe measures Stoecklin ecommends pneumolysis with a paraffin fill S uerbruch does a typical paravertebral thoracoplasty if the hæmorrhages have been small and the patient is a good cond tion

In the opinion of Sauerbruch and Stoecklin the smal est active les on in the hilus or the lower lobe of the better lobe absolutely contra indicates opera tion Lareful functional tests of the card ovascular system are essential for sound judgment regarding the operability of a case. Bull considers thoraco-plasty contra indicated when bone or joint tuber Colosis is present Curable psychoses d not contra indicate operation. If adhesions p event the use of pneum thorax d r g p egnancy a therapeutic

abortion should take precedence over thoracoplasty Mild and moderate lary preal tuberculosis almost al ways imr rove after thoracoplasty Organic nephri ti contra indicates thoracoplasty Every European writer on the subject condemns operation if there is intestinal tuberculosis

Braver tinds that from 10 to 15 per cent of pa tients who have been operated on show progression of the lesions in the better lung and that usually

this leads to death

The pre operative and the operative treatment are best carned out in suitably equipped sanatoria rather than in general hospitals Bed rest i ad isable for patients with a simple bronchitis. To are ent the aspiration of infected secretions the patient should empty h lung before operation Regional and local infiltration anæsthesia are

more frequently used than general anæsthesia Most of the surgeons referred to by Alexander fear the touc effects of novocaine Berard i pleased with the effects of anacame which has a more pro

longed action

The variability of the type and the lo ation of the lesions and the patient's general condition make definite tules impossible. I hrenicotomy is a favor able or himmary to any type of operation. In general most patients progress better after a t o stage Sauerbruch or Brauer operation Resection of parts of the ribs from the first to the eleventh is known as the complete operation as it compresses the entire hemithorax and places it at rest Partial operations put only part of the lung at rest This is an advantage however when the lesion involves a very small area when the patient is too sick to withstand the shock of the complete operation and when the better side would be activated by the additional load thrown upon it by the complete procedure When satisfactory compres ion is not obtained by the complete operation it may be necessary to supplement the original operation by pneumolysis I FRANK DOLGHTY M D

Law A A Some Sug cal Considerations of Estrapleural Thoracoplasty J Lo c ! 1024 xhv 46c

Extrapleural thoracoplasty is more generally fa ored in Europe than in America It is indicated only in cases of long standing in whi h collapse of the lung has been unsuccessful It is not advisable in acute progressive cases or in those with a tuber culous process elsewhere in the body

The operat on of choice is the removal of a seg ment of the ribs from the first to the eleventh or twelfth as standardized by Sauerbruch This allows complete collapse of the lung while section of the ribs permits only partial collapse Rapidity in operating is imperative since all re piratory effort 1 placed on the opposite lung Complete resection should be finished in forts minite.

The dangers are decidedly lessen d by performing the operation in two stages removing one half of the r bs at the first stage and the remainder from t o

to three weeks later The author prefers a combin ation of local anasthesia with gas-oxygen analysis The I ngth of the incis on will depend upon whether a one or two stage operation is to be d ne If long posterior stumps are left behin I the lung will not collapse completely and new bone formation will occur since the periosteum has been left b hind

The dangers of pulmonary cedema and medias tinal flutter following the operation must be borne in mind In the great majority of cases coughing and expectoration decrease the pulse and temperature return to normal and the patient gains in weight and feels very much better. The operate n causes only slight deformity WILLIAM J LICKETT M D

Bettman R B Cl ronic Empsema S g C7 lm 1024 v 821

Bettman reports a case of chronic empy ma and gives his conclusion as follows

r Chronic empyema can often be prevented by care in the treatment of acute empyema. Acute em pyema should be treated first by the closed method Rib resection should be used only in the few cases which do not respond to the closed method

2 A case of acute emprema should not be pronounced cured as long as any cavity remains. A closed unobl terated cavity even though sterile sill probably become re infected and lead to a re currence Cavities that do not become re infected are the ex eption.

The shape and extent of an emprema cavity can be clea ly determined by filling it with a 12 per cent solution of sodium bromide and then \ ray P 4 Many cases of chronic emovema can be cured by simple drainage and careful dakinizati n plus the

use of blow bottles and cal sthenics Rad cal one at on should be considered only

after conservati e treatment has proved inefficient 6 The aim of all rad cal operations should be the

obliteration of the cavity

The operat on used in the case presented con isted in brief of the formation of a skin flap e posure of the cavity in its entirety by r section of the o erly ing ribs and thickened pleura decortication of the exposed lung where this was easily accomplished cautenzation of fistulæ and inversion of the skin flans. The mar untalized vide-open defect was allowed to h al by cicatrization

This operation is best pe fo med n two stages The anasthetic of choice is nitr us o de and ovegen because it permits a tificial re p nsion f the ! ng at any time so that is po r fre expansion can b estimated

CESOPHAGUS AND MEDIASTINUM

Dem 1 R The V cular Supply of the Esoph A Cont thut on to the Surg ry of the gus. Esoph gus (D) Gf s gug d Sp ro hr £n B trg u Oes ph gu hi rgi) Arh f kl n Ch 94 * 453

The author made macroscopic microscopic and roentgenological studies of the ascul s pply of the ersophagus. The results of these investigatio s are of value particularly for practi al surgery The extensive work is illustrated with numerous pictures The foll wing conclusions are dra n

t The ersophagus i divided into four parts the cervical portion the bifurcation portion the tho racic portion and the abdominal portion. This die sion is based upon anatomical conditions and the

vascular supply

2 The blood supply of the cervical portion of th resonharus is furni hed by the inferior that id artery an I a branch derived breetly from the sub clavian artery The inferior thyro d artery supplies the upper half of the c rvical portion of the eso phagus and the direct branch of the subclayian artery supplies the lower half

2 Division of the course of the inferior thyroid artery into a lover and an upper ascending portion and a transverse connecting portion with a median and lateral bend is important for the better descrip tion of the three almo t typical points in the inferior thero d arters from which branch s lead off to the resonhagus. These three points are the following (a) in the enter of the upper ascending portion (b) at the median bend and (c) at the lower ascending portion near the s belavian artery

4 Generally the right inferior thyroid artery has more branches than the left The left branches d not anastomo e sth one another as abundantly as the branches of the right inferior thyro d artery

The direct bra ch of the subclavian artery is not constant but a present in more than half of the cases When it is not present the lower half of the cers cal portion of the resophagus is less well sup plied with blood was als

6 In contrast to the macroscopic e amin tion the microscop c examination of the cervical po tion of the arsophagus shows that the left border is ju t

as well supplied with blood vessel as the right if not better. The roentgenogram of the intra-organ c blo d ves els corre pends to the microscopic fi dings 7 Surgical exposure of the cers cal portion of

the ersophagus from the left side is justified o the bast of the macroscopic in croscopic and \ ray investigations not o ly for technical reasons but al o because it gives more favorabl c nditio s for the healing of wound

8 The b furcat on pa t of the resophagus whi h is supplied chiefly by the anterior and posteri ? es ph gotracheal attenes show ry good nutri tion throughout all it part and is the port n the esophagus which h s the be t blood supply Its su gical app oach however s v ry d ficult b cau e of its po tion d beca se of the shortn

of the blo de ssels of the desophagus s suppled by the asophagen proprie a ten r s and posteri res ar er e shch v ry in number a d are class fied as anterior and posteri r according t the ren n they s pply r th r than according to th ir ong n in the aor a The pper h if of th thorac c portion of the ersophagus ha a co s de bly poorer blood supply than the lower half e pectally on the antenor surface and at the right border. The right border of the orsophagus in the lower portion of the thorace part has the poorest blood supply

So Because of the vee dis reaching the ecopha So Because of the vee dis reaching the ecopha pai from the I it an approach from the richt and I potentor a pertis comes up for consideration in those of the topper part of the thoracc portion of the ecophagus In this approach the poorly sounded areas with a lack of sufficient anastemor esthereon the Horacc portion and the bifurcation bifurcation that the properties of the properties of the bifurcation that the properties of the properties of the properties of the sounded areas with a lack of sufficient anastemore to bifurcation the properties of the properti

portions of the excephagus must be bome in mind it. In the abdomnal portion of the exophragus only the potent surface and the right border ha e a good bood supply. This is provided cheefly by branches of the left gastine artery. Sa rule the left undersor phrane artery supplies the left torder of memor phrane artery supplies the left torder of the right surface artery supplies the left torder of stage. The surface artery supplies the left torder of the surface artery supplies the left torder of stage. The surface are supplied to the posterior stage in the surface are supplied to the posterior stage. The surface are supplied to the posterior stage of the surface are supplied to the supplies are supplied to the supplies are supplied to the supplies are supplied to the abdomnal portion of the croophagus. The surface are surface maked in the surface are supplied to the supplies are supplied to the surface are supplied to the supplies a

12 Overtime exposure of the thorace and addomaind portions of the esophagus a much easer from the left side because of the portion of the esophagus and the greater mobility of the eoritoside to the greater length of the blood we elso it has approach the les vacular right border of the esophagus in the region of the lower thorace borton must be to re in rund.

13 The uncertainty of sutures in the or ophagus is due largely to the fragility of the oxophagual wall due chiefly to the relati ely poor blood suppl of the circular and longitudinal musculature a com

pared with the much richer blood supply of the ecophageal mucosa 14. The preddection of carcinoma for the level

of the bifurcation and the cardia cannot be explained by the vascular supply of the individual portions of the ersophagus GL ss (2)

Peterson R and Miller N F The Thymus of the New born and Its Significance to the Obstetrician J 1m M 41 924 lixim 234

From a study of 120 infants the authors draw the following conclusion

thnormally enlarged themus occurs in from 40 to 50 per cent of newborn infants

In general iew symptoms indicative of thymic hyperpla is are apparent the first day of life and when roted are generally mild

A tradency toward a higher incidence of thy mic hyperplasia i noted in infants born of elderly mothers and of multiparse in male infants and in infants born at term. There is no appreciable difference in size or in

ve ght between infants howing thymic hyperplasia and those with a negative thymus There: a definite fluctuation in the size of the

There is a definite fluctuation in the size of the thymus synchronous with respiration

In the diagnosis the roentgen ray is superior to clinical method

While it may be impra iteal to subject example newborn infant to an Vrav extamination it is of great importance that every baby with thymic as implored he so extamined. Sterce copic films of the cheet I ken at the end of expertions are of more practical value than theoroscopic observations. For practical value than theoroscopic observations is proposed to the characteristic objects of the char

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Andrews E A Metl od of Hernlot my Utili ing Only White Fa cla A S g 1924 f R 2 5

The author presents considerable evidence that the inclusion of the internal oblique muscle in the inner row of sutures is a mustake as it not only fails to strengthen the lower end of the cinal but per haps weakens the inguinal sphinieter and helps in the production of a ne direct hermia

An operation 1 described in which the restoration of the canal is effected with the use of only white fascia.

The floor of the canal is constructed by suture ing the endo abdommal fasca (trans reals) ! Poupart's ligament The cord is transplanted and the external of low part poupart's ligament to the cord is transplanted and the grant transplanted and the lower flap of the aponeurosas is sutured to lower flap of the aponeurosas is sutured over it as a most for the canal Interrupted sutures of kingaron tender are used all knots being placed outside the canal canal Interrupted sutures of Lingaron tender to the canal Interrupted sutures of Lingaron tender to the canal Interrupted sutures of Lingaron tender to the canal Interrupted sutures of Lingaron tender to the canal Interrupted sutures of Lingaron tender to the canal Interrupted sutures of Lingaron tender to the lingaron tender tender to the lingaron tender tender to the lingaron tender ten

Coley B L Three Thousand C nsect tive Herni of mies 1 S g 924 lxx 42

Three thousand recent consecutive cases of hermotomy have been classified according to the age and set of the patients and the type of the herma. Recurrence rates in each group ha e been compiled on the basis of \$3\tau\$ cases followed up.

The cau's of recurrence may be arbitrarily divided into

r Factors inherent in the subject such as the patient's age and occupation the size and type of it hernix the development of the abdominal musculature the presence of adhpo e tissue artangulation of a hernix in a patient whose condition is critical. The main surgical problem is complete or partial absence of a conjoined tendion.

2 Tactors over which the surgeon has control eng failure to recognize and dispose of the hund sac wound infe tion the use of non aborbabl sutter material do ure under tension failure to support the operative wound by proper d essings and failure to prevent protop rative bronchins and programment in the selection of cases for operative eard more attention to the details of operative technique and postoperative care will tend to reduce the in cidence of returnence

In children recurrence is a rare sequel to a properly performed op ration. In 91 cases of operation for all 11 ties of he ma 300 of which ere followed C 1 v was unable to find a single recurrence. Follow up c aminations are becoming the rule in most metropolitan clinics Recurrence rates not based upon follow up examinations should be discounted.

Direct herma is rare in the finale and in chalfen under 15 years of age. The cure of direct herma represents a distinct problem. Many herms of this type are best managed by some modification of this type are best managed by some modification of the Bissini operation. A certain percentage prise to missiculo-apioneurotic deficiences which render the prospect of a permanent cure unfavorable in this group operation is not advantage.

The hope for better results hes in the c ercise of more careful judgment in the selection of cases suitable for operation rather than in the adoption of new procedures based upon new principles

Saddle bag or durect and indirect hem a should be considered and t cated as a variety of direct herma Removal of both sacs is essential In Coley a series of \$80 c se of direct herma; male adults eighty five of 1 h ch ha e been followed a formation of the series of the series of the series of the variety of herma the h ing suture repair of Gallies is of great value and may become the satture of choice

Thus far there is no conclusive evidence that the repair of femoral hernia by the inguinal route gi es better results than those obtained by the simpler

meth

Cases in which a recurrence has developed oc will be more apt to develop a recurrence again. The second recurrence may be I reget and fees am analytic truss treatment. Therefore the advalshing of the recurrence in the recurrence in the second recurrence in the author's series followed operation. In previous recurrence. In this goup Gall ex operation, with the use of him guitare has a distinct place.

The type of operation to be performed should be determined by the ts ues available for repair. The use of a standard zed technique for all cases is to

be deprecated

Local anaesthes a has set inded the field of operability to include the aged and the seaffening from intercurrent disease which in itself contributed the the u of a general anaesth tie. It is of value priticals by in cases of stangulated herma in adults to the contribute of the contributed herma in adults to everyone with the addition of a mail amount of their lineer sary and for children ether admin stretch by the drop and open corn method

Coley's becribes to Mor ows t tement th tal though many surgeous o sder th operative cure of he is a simple pro edure it requires sound su gical judgme t and consider let technical skill Cyen, I Gr. P. MD.

CYRIL J GL P VI D

GASTRO INTESTINAL TRACT

Morrison T H and Gantt W H A Study of the Gastric Residuum A n Cl n Med 10 4 11 140

Our knowledge of the gasting readoum has been obtained from a study of the gistric cointents remard through the ordinary stomach tube. Rehfuss L. dis co-workers have show in that usually be the gistric residuum cannot be removed completely be gistric residuum cannot be removed completely be gistric residuum cannot be removed completely be gistric residuum cannot he removed completely be gistric residuum cannot he removed completely be gistric residuum cannot he removed and that sa a rule it is poss'lle to obtain a much greater quantity be em robust the Rehfuss tube.

B) means of the Rehfus tube the authors made observations of the gastric residuum of ten normal persons and fifty patients affected with various disorders From this study they conclude that the examination of the gastric residuum is an extremel important method of gaining valuable information regarding gastric function Since as routinely em posed the ordinary stomach tube obtains only a fraction of the gastric content-usually about one third or one fourth of the total amount-it is im portant to employ the Rehfuss tube for exact infor mation regarding the volume of residuum microscopic examination of the contents of the fasting stomach is more important than the estima tion of the volume secured and for this determin tion the Ewald tube is about as good as the Rehfu s

Goldbloom A Hypertrophic Stenosi of the Py lorus H d Cl \ Am 9 4 1 739

JOHN W NE CM M D

Goldbloom reports the case of a male infant ag di 6% weeks who was apparently normal during the first three weeks of life but then began to have a state of explosive vomuting immediately after taung which were followed by emaciation constitute as a Treduction in the amount and an increase in the production of the urnee vonder visible way is of gasting-based and palipable mass in the right typest quadrant.

Fathlogically considered this ondition is more than a simple his pertroph of the musice there i probably a neuromuscular de angement in the plo no causing incoord nation of the phys ological open up of the sphincter. The size of the tumor has no the planter and the sum of the planter and the planter a

In the case reported a Fredet Rammstedt operation was done polynous being incised for about 135 in and the cages of the inci ion divulged nmit the fred muonitation of the incised with the sponger. The with hot sponger. The both side with the dipped back into place and the wound closed. Anarchica was induced with either. The operation lasted twell e minutes.

Afte the op rati in aline solution was gi en subcutaneou ly and was absorbed ery rapidly. By mouth wat was given first and then human milk the qu nut es being increa ed gr duall. On the sixth day the child wa put to the breast and on the tenth day was discharged cured

Metical treatment is permissible for three or four weight and cases or in the e with little loss of weight. Howard advises refeeding the same type of food site the infant has vomited. Another metical treatment of the final has vomited. Another metical treatment of the vinited and remains in the stom such a sufficiently long time to relieve the pasm term coranity. A third method is that of Hass who gives atropin in fairly large doses beginning with 1/1 coop immediately before each feeding and increasing the amount to as much as 1 250 gr. This method i best in edit in connection with Suer's regently.

In the author's opinion surgical treatment is the most economical as usually the child is thriving as early as ten days after operation while infants treated medically must generally remain in the hospital a month or two and sometimes longer

The prognosi depend on the rapidity of the loss of weight the set net of the symptoms whether or not the child has been weaned before the operation and the length of time that clap es before the operation is performed. CLYMON F. ADERWS M.D.

Fried nwald J and West P F Massi e Hæmor rhage from the Stom ch Produced by an Lnusual Cause 4: Cl M d 1) 4 m, 58

The authors repo t the cases of two elderly males who died from mas we harmorrhage of the stomach In both instances a partial autopsy revealed arter mosclerotic thickening of the gastric vessels with rupture of the right gastric artery. The stomach was filled with clotted blood

These ca es are reported to point out that great care must be exercised in making a diagno i of gastric or duodenal ulcer on the basis of hæmorrhage alone for W VLEUN VID

Lund F B Surg cal Treatment of Chronic Ulcer of the Stomach and Duodenum B son If & S J 1924 Ct 1 39

The essential points in gastro-intestinal surgery are the avoidance of souling during the operation the avoidance of tension on the line of suture subsequent to operation the avoidance of kinking, and

above all the avoidance of hamorrhage Soiling is avoided and the accurate apposition of the tissues is made much simpler and easier by the use of clamps The one danger of the clamp-sec ondars hamorrhage after the operation-may be a oided by careful and accurate placing of every suture The autho uses a long straight round needle threaded with No 2 chromic gut This su ture material is coarse enough to be strong and to hold the tissue well and does not become absorbed too soon The clamps are removed before the first layer of sutures 1 completed to determine whether there is any hamorrhage. The operation is easiest in the thin subject whose stomach hangs low When the stomach is high and the mesentery is loaded with fat it is of ad antage to carry the incis on up to the

xiphoid The opening in the mesocolon should be as close to the root of the mesentery and as far from the colon as possible

Vomiting is a rare and unimportant symptom in duodenal ulcer Excision of a luodenal ulcer with out gastro-enterostomy should never be done as it merely substitutes a suture line for the ulcer without changing the abnormal condition which produced the lesion With the exception of the hyperacidity we do not know dehn tely what these conditions are

Resection of a duodenal ulcer even if the oper ative risk is only slightly increased is inadvisable because there is no danger of malignant degener ation in this lesion. On the other hand ulcers on the pyloric side of the stomach according to the Mayos carry the potential danger of carcinomatous

Ulcers on the lesser curvature are less apt to be benefited by gastro-enterostoms. Their excision is difficult and often fatal. They are best treated by Balfour's method-burning the ulcer out with the cautery inverting and suturing and performing a gastro enterostomy The ulcerated area should be destroyed a ithout carrying the cauters into the surrounding healthy tissue The Balfour cautery excision is indicated espicially in cases with hamorrhage and

in these it should be or ceded by a blood transfusion Mayo obtains a cure in go per cent of the cases of duodenal ulcer by gastro-enterostomy and believes that the use of the Finney pyloroplasty will effect a cure in another 5 per cent. In smaller ulcers on the lesser curvature Balfour s operation (cauterization and gastro enterostomy) will cure in 00 p r cent

In the author's exterienc ulcers at the pylorus or just on the gastric side heal as well after gas tro-enterostomy as those of the duodenum. Ho ever if resection is safe and easy that is if the stomach can be drawn well outside the abdomen it should be done C 1 I GLASPEL M.D.

CI irmont P The Results of the Surgical T eat ment of Ulcer (Er, bm d per ti en li h d l g der Ul sk niche t) S hu m t li ch /

The purpose of this report on the end results n r ato cases of ulce treated surgically is to ascerta n if possible the reasons why the different operat ons fail to effect a cure Clairmo t open his article with the follo ing sentence It has been hown that the longer the surgically treated cases are obs ried the more frequent are the unfavorable eports

The established ope ative methods are pre nted in tabular form with their successful results their failures and the causes for the latter. The total mortality of surgical treatment of ulcer and its com olications is shown to be to per cent. The imme d ate operative mortal to of the first ope at on (1 e86 patients) was 7 per cent When a second ope at on as nece sary (thirty nine cases) it rose to is per cent In operations to peptic ulcer (fifty even cases) it rose to 2 per cent and 1 complicat as

dangerous to life such as hamorrhage (fifteen cases) and perforation (sixty seven cases) it v as 40 to 41

The first operations were divided into radical procedures such as resection of the stomach and con servative procedures such as gastro enterostoms with or without pyloric exclusion

Transverse resection-performed in 181 ca eshad a remarkably lo mortality viz 55 per cent The mortality of the Billroth II oper ton (215 cases) was 9 per cent and that of the B liroth I operation (sixteen case) 12 5 per cent

In comparing the operation mortality of the radreal and conservati e procedures it is of importance to note that the mortality of the more senous opera tion is only slightly higher than that of the pall ati e procedure. Against an operative mortality of 2.7 per cent in the former there w s a mortality of \$4 per c nt in the latter

Of the total number of p tie ts perated upon 2 c per cent died from perit n ts 14 per ce t from pneumonia and a per cent from ulcer (hemor rhage etc.) After transverse resect on pneumonia is the chief cause of death at begins constantly on the l ft side The cau e is d ect fection by con tiguity the gh the daphragm I resection ac cording to the Bill th II method t o-thirds of the d ath a e traceable t perstonits in state of the sever to of the operation one mont plays a l-sser rôle. In the pall ats e methods the thief d' from the ulcer in dequat technique les nother

b t lesser danger namely vicious circle The late results of the rad cal interventio s are decidedly more fa orable than those of palli tive operations A compl to cure was obtained by the B firsth II operation in 77 per cent of the cases by trons erse resection in 67 per contributions er clusion in 50 per cent and by gastr - enterest my in 56 per cent. In 33 per cent of the cases subj cted t transverse r section the ulcer freq ntly p rs sted or in the third or recur ed or there s reto t group there e e 3 mptoms of a pan eatic lesion The e last in wie depended up n th rel tion of the ulcer t th pa c s Most of the fa lure of the Bill oth II p ration cannot be definitely ex plain d but probably ere due t fa tors s mila to those cau ing the fa lure of t neverse resecti

Falur of pylone e clusion to effect cur vas due directly to a p pt c ul er f the jejunum in 70 pr cent of the cas Th same applied to g stro entere tomy Ins ty o e fth nin ty s x uncure i p tients a persi t nt ul r was fou d nd in t entv a peptic jejunal ulcer F th latter fifty seven operat ons we e don

Ob ervatt as of the I te resu ts o the various operative pr cedures showed th tr s ction d es not ter tomy soon always cure A se ond g st after the fir t somet m s gi e good late esults Other interve tio s such a jejunostomy r exci io are not pt to give g od res !t

Cases that we not oper t d upon we unin fluenced by m d cal tratm nt

whether in these method, which bring about a good immediate result it is possible to obtain a permanent cure with certainty must be answered guardedly for transverse section and in the negative for pylonic exclusion Pylonic exclusion must be abandoned all experience points to radical operation ie re section as the proper procedure. Resection should be as extensive as possible even though the rev ons for wide resection are based upon empirical rather than physiological grounds It is still unexplained thy in one ca e the ulcer begins acutely and rapidly increases in size and in another cas even when it has been pre ent for years at remains small and with o t substantial local reaction why in some ca e folio ing jejunostomi or gastro enterostomi it heals without leaving a trace and in other cases it not only remains uninfluenced but continues to progres STEGENIA > (Z)

Friedenw ld J and Bryan W J Free Hydro chl ric Ac d in Gastric Contents in Carc noma of the Stomach J im W 422 924 l x1

Of 100 cales of carcinoma of the stomach in which fractional analy es were made of the gastric contents 52 per cent showed achlorhydria 16 per cent hypochlorhydna 26 per cent normal acidity and 6 per cent hyperchlo hydna. When these fig ures are compared vith those obtained by means of an Ewald test breakfa t it becomes e ident that in a large number of instances in which anacidity is noted by the latter method of examination this finding is mi leading since free hydrochloric acid may still be determined at some period during a gestion by the fractional examinati n of the gastric secretion. If conclusions were based on the had go of the Ewald test bre kfast alone the incidence of achtorhyd ia in the series of cases teriened would have been ginstead of 52 per c nt WALTER H NADL R M D

M Ichlor E The Surgical Pathology of the Duo denum (B t aeg zur h u g sch n D d n l pathology) 4 k f k! Ck 9 2 633

One of the forms of high ileus that has been the subject f conside able debate the form kno n 1 artenomesenteric occlus on of the d odenum Mel thior first presents the v riou theories as to the recharism of its origin \on Habe er a sumes that I its causat on the only condition neve sars is the cent of the stomach into the pel as According o her theories it i econdary to a process in which the stomach primarily paralyzed and dis-tended as the result of some other condition drags the small intestine down nto the pel is stretches the mesenters and cuts off the lumen of the bo 1 rechanically According to another h pothesi th occurrence of art riome enteric duodenal occlusion is an arbitrary as umpt on s n so called cases of pa alysis of the st m ch m , be ascr bed to acute tonic conditi which invole the lu denum m pathetic th

A condition resembling ileus which appears after gastio-enterstoam the author considers either a simple atom; or a secondary mechanical obstruction of the bowel due to a kink or the pressure of the stomach on the effected loop. With closure of the pylorus this would leaf to simple stass within the disodenium and under such conditions the vomiting of bile would logically ectude an effective arterio me exterio occlu on. It appears equally improbable to Velichtor that the small inter time by its own eight alone could evert a sufficient pull on the me enters to occlude the duodenium.

me enters to occlude the duodenary.

A remarkable fact shown his both the clinical and
the anatomical find ags is that in spite of the as
sured complete congression of the duodenium no
other local change can be ducovered. If the duo
denum were compress of by the mesentery there
would be pressure phenomena in the root of the
me enters, with consequent state translations
farction and gangree. If he been definitely de

The theory that artenomesentone occlusion of the duod n m can occur only when the intestine is empty is opposed by the theory that it can occur only when the intestine is full

A very strong argument against the theory of pinary attentione enterior occlosion of the duodenum is that other me hanical obstructions of the intestinal lument is the junction of the diodenum and jejanum present an murely different yreture lampo tant fasts against this fleory are furnished also be what we know about the chronic con linion severe actual of experiments of the process of the pro

An important support of the theory of acute artemomescenten occlasion of the duodenum was the long held belief that th' abdom nal or lace chest position is sufficient to withfart whe small intestine from the pel is and thereby relieve the stoppage lowever the cases of assumed mesentenc comprestionated the cases of assumed mesentence compresting the compression of the thing the coming the compression of the coming the compression of the coming the compression of the coming the compression of the comtent of the co

A further argument against the theory of primary arterionie enteric quodenal occlusion 1 the marked inconsistency of the anatomical findings. In some of these ca is the apparently mechanical occlusion in of either case the apparently mechanical occlusion in of either ower 2 small portion of the primary and in still others it is impossible to determine the masture of the mechanical impedim at Even the typical condition found at operation 1 ether the special condition of the open the casing of the duodenal inflittion where the mesen tery cross es over does not necessarily and cate that the obstruction is due to the root of the mesentery.

However from the incomprehensibility of the ph sucal genesis of the c ndition and the incompstence of its clinical picture we pass to secure gr unlif w regard < called afternom-sentence duo

denal occlusion as identical with or a secondary phenomenon of acute alony of the stornch result ing from the effects of narcosis or trauma such as gross contission or length, operation manipulations. Other etiological fictors may be acute distention produced by substances causing fertimentation and infections with severe after effects. As a rule the alony does not affect the stornard alone the duotion that the storn of the severe o

As there may be isolated paraly sis of the duodenum there is probably also an isolated paralysis of the du odenum. The assumption of an originally isolated duodenal atony of this type would explain those rare cases in which the stomach is found undilated and the establishment of a gastro-enterostomy may be of benefit It is concervable also that the dilated stomach might press the small intestine into the true pelvis and cause compression of the duodenum indirectly by causing tension on the root of the mes In disagreeing with you Haberer's areu ments against identifying afteriomesentene duodenal occlusion with acute gastroduodenal atony the author attempts to prove by citing cases that on the basis of a more sudden or gradual onset or the later course it is impossible to make a sure differential diagnosis between the two conditions He declares untenable also the last of the symptoms given by von Haberer in the differential diagnosis between arteriomesenteric duodenal occlusion and dilatation of the stomach viz the reaction of the pulse when the contents of the stomach are siphoned

Melchior passes quickly over the chronic forms with which he has had no expenence. The cl n cal symptoms of what is termed chronic arteriomesen. teric duodenal occlusion are intermittent and gen erally pers at for years. They been with beadache vertigo neurasthenia cardiae disturbances cold ness of the extremities and persistent constitution The mechanical disturbances cause p in and dis tention in the right hy pothondrium appearing a few hours after meals nausea and comiting times the vomitus contains bile Of importance in the diagnosis is the presence of a tympanitic distended zone corre ponding to the duodenum fluoroscopic examination shows obstruction of the The disturbance disappears when the duodenum patient hes down Some surgeons have mentioned as not very unusual the presence f a cord running from the transverse mesocolon to the mesentery

In conclusion Melchior states that since the hypothesis for the occurrence of a primary arterior mesenteric duodenal occlusion are unsativations and since there are so many anotherial possibilities of a different nature which might produce the since syndrome we must admit the uncertainty of the entire quest on He fears that chrome duodenal stenosas will become a fash onable diagn sig 1 ke chron c appendicuts without acute entures and engastric them. Cax re (2)

Peck C. II The Present Status of the Surgical Treatment of Chronic Duodenal and Gastric Ulcer As Surg 924 laxs 31

The author states that most surgeons are conte t to let the internist treat cases of chronic duodenal ulcer as long as the phys cian and patient are satis fied that the treatment is giving relief and a cure is heing effected. He agrees with the internist that early uncomplicated cases should first recei e med ical treatment and that a considerable number of patients are cured or at least kept in reasonable comfort thereby for long periods of time. It is a well recognized fact that many patients prefer to bear recurrent periods of discomfort rather than submit to the bazards of operation and are willing to accept a cert in percentage of risk as to the possible occurr nce of hamorrhage perio ation or obstruction Such persons should have a clear understanding of the situation Ample opportunity for surgery exists in cases which fail to respond properly to medical treatment in those of person unw lling to endure repeated relapses and in those in which complications threaten or occur In cases in which a hasty or ill founded diagno is has be it made and is unsupported by ad quate chinical

symptoms there of medical treatment is important. Peck is greatly disturbed by the recent tendency to advocate rad cal measures of resection often of large portios of the healthy stomach for the surgical cure of uncomplicated chronic dued mai

ulcer
On the bass of his own expenence in 196
cases he believes that a mple g stre neterostomy
roportyl performed is curat ve and adequate in the
great majority of cases and that from 8 to ep pr
eleved of their symptoms and tensari vel. The
portation is a systecsful who there performs
properties of the properties of

The choice of procedu e depends upon the pathological type of ulcer Leaving out acute perforations the cases may be class fi d into four general groups "12"

GROUP I Small single anterior wall ulcers with out narrowing of the gut These may be locally excised without encroaching on the duodenal humen or priorus to any extent Local e cision without gastro entero only is sufficient

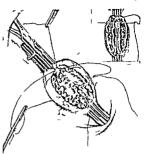
"Group a Chronic i dirated ulcers a thout ob structions augly or mult ple The majority of duodenal ulcers fall in this class. Gastro enter crowy slower and cure a large personage once the control of the control of the control of the carry and unwarranted. This group include the chronic perforating type of ulce with it harmor thags but we be to keep and sometimes with a computer of the control of the control of the of the control of the control of the control of the control of the control of the control of the control of the control of the pretty of the control of the co



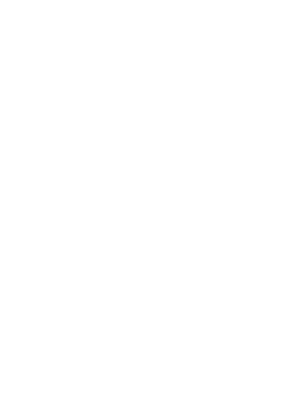


Geory 1 Case with duodenal structure o socilled pilone stenosis. In his group gastro extensions is the ide l operation. When because of prolonged structure and deb dration due to marked structure the patient is in poor condition at the stand operation prehim man by pod muoch sustifications in and operation under local anasthena will ad in obtaining a successful out

GNOT 4 Cases in which see e hemorrhage has occurred Gastre enterosion we not a gu ran hes against recurrence of hemorrhage shich may prove fatal If the patients condition permits excs on of the ulcer a ran is desurable in this group if the danger of radical excusion seems too great Pastro-enterostomy may be sufficient or may be done as a first step of a two step operation. The done as a first step of a two step operation of the control o



Peck describes hi technique for gastro enteros tomy which differs from the standard operation in a few details. An interesting point in his report i that in of cases there was no case of postoper at a chamorrhage. Peck attributes this to the fact that the standard of the control of the control of the control of the postern r hill of the innoval settled for the postern r hill of the innoval of the control of



these in the patients in their primary localization progression and extent. In sections through the isons of the rabbits large numbers of Gram positive diplococci were found.

In addition to the usual methods of treatment midsding the administration of todine by mouth &s elin bominh and olive-oil nejections and topical spitiations mixed vaccines prepared from lesions in charal cases have been administered to several patients with the disease. In some cases favorable results have been obtained.

The work in progress promi es to aid in clearing up the etiology of chronic ulcerative colitis of the so-called idionathic type

Crohn B B and Rosenberg H The Medical Treatment of Chronic Ulcerative Colitis (Non Specific) J in M As 1924 l x 1 3 6

Rest in bed is essential to the treatment of all of the acute forms of non specific ulcerative colitis Heat applied by ab lominal stupes electric pads and baking with electric light apparatus gives local thei and in some cases seems to exert a favorable influence on the course of the disease 1 general det containing all food elements and the vitamine containing substances is essential. The adminis tration of bismuth subcarbonate in large doses (a teaspoonful every two hours) kaolin bolus alba or Fuller's earth often causes an amelioration of the diarrhora with relief from the con tant urge to empty the bowel To quiet intestinal hyper penstalsis opium is the drug of choice and when used in small doses (tineture of deodorize i op um 3 minums-0 2 c cm -every two or three hours) it d minishes without entirely halting the intestinal in thit, and thus prevents the undestrable by effect of gas pains

The hoc I treatment consusts of a utral acrifia memmat. The best results are obtained by begin ning with an enema of 750 c cm of a 4500 aque of 9.0 s saines obtained with an enema of 750 c cm of a 4500 aque etc. I mem for from ten to twenty minutes. The plicited should lie in the left lateral j osition during the princip of the previous the object of the previous theoretical to the sain that an excessary to assure full contact of the previous with the colon. No other cleaning enema is required huring the course of the treat mem. Is required huring the course of the treat

As the symptoms of urgency and diarrher a slate this sue it to ccurs within the first o second wellthe mens may be reduced to on dails and the ling the the solution into red inst to 13500 the state of the solution into any set redesers in the solution into any set redesers maintenance and the solution in the strength and return calls for a luminosi in the strength and figurency of the ratim at

The treatment sho ld be continued until the imperature is n rmal and the d rrh at h a ceased Artural serialisms colution may then be a limins ted on alternate lays and a weak sof t n (0 5 per cent) of sodi m b athon to used n the inter

vening days. The weak alkali tend to increase the antiseptic action of the dyestuff. The treatment should be continued until procto copic and sig moidoscopic examinations of air demonstrate the disappearance of all ulcrative lessons.

The accompanying table gives the results in the authors cases in the years 1921 and 1922 when no definite aim or methol governed the form of treatment and in they ar 10 3 when all of the patients received the neutral acritia me treatment.

CARL D \ IDHOLD M D

Straus A A Fredman J and Bloch L Colec tomy for Ulcerative Colitis Sur Cl Y 1m 9 4 1 667

The authors report three cases of ulcerature coluins treated by ideostoms and colectoms. They believe that ileostoms 1 the ideal first step in the treatment of ulcerature coluin after medical methods have been trie! If ileostoms 1 speriormed too late there may be unproceed and pure the stools and to suffer from the about of and pure in the stools and to suffer from area of bow 1. If ileostomy alone cannot been the infected field clean a combination of leostomy and excostomy may be effectual. The authors plan to give the latter method at 1.

Bec use of their event perience with colections they belie is that it is the only rational procedure to rid the patient of a tremendous focus of infection rid the patient of a tremendous focus of infection it can be no more logical to leave from 3 for 4 ft of infect of infection of the leave from 3 for 4 ft of infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con an infected gill bladder. They are not at all con the infect blowed. In four or five miths an ansistem is me be effected between the ileum and the remaining portion of the rectum.

STANLES J SEEGER M D

Fan le W A Tle Classification and Treatment of Hæm rel old M n 1 M d 19 4 1 556

The sensory nerve supply of the anal region lies almost entir ly within the anal canal

About on half of the cases of harmorthoils do n t sh weither of the distinctly internal or external types but present a variation or complication of on or the oth r

For the ext mal variety of Exmorthoids the author prefers the method of dissection or excision and reacerate no fith variously with the sea sors ligatures sho libe used of lyrar ly as they cause pain. I there are no yess ls in the anal canal that require ligation.

In the treatment of internal hamorrhoids Fansler miects the hamorrhoid with a 5 per cent solution of quimine urea hydrochloride Because of the as sociated pun and the danger of stricture formation he does not favor the use of the clamp and cautery While the use of the cautery prevents prolanse of the lining of the rectum after the operation varicosities will often be found to be within because they cannot protrude Fansler gives a description of the technique of

dissection and ligation which he has employed a certain selected cases

WILLIAM I PICKETT M D

LIVER GALL BLADDER PANCREAS AND SPLEEN

Ottenberg R Rosenfeld S and Goldsmith L
The Clinical Value of the Serum Tetra
chlorphenolphthalein Test for Liver Function A ch I ! Med toza x 2 6

In 103 cases Rosenthal's method has proved a valuable index of liver function but its use his sharp limitations it is valueless in cases of obstruc-

tive jaundice

After rel of transient obstruction the ability to excrete the dye returns promptly but after obstruction lasting longer than a week return of function may be delayed for d ys or weeks

Slow recovery results also after lobar pneumonia The test was foun I useful in detecti g liver dis ease in sixteen cases most of which were cases of cirrhosis metastatic carcinoma and cardiac decom pensation. Its greatest value will probably be demonstrated in the early diagnosis of h er metas tases and currhosis of the liver. In eighteen cases in hich findings other than 11un lice suggested liver

disease the test proved an aid in excluding such a condition

There were no fal e positive results Two ca.es of duodenal ulcer showed slight retention. This together with the fact that in one case of cirrhosis autopsy revealed a bealed duodenal ulcer suggests chronic local infects us as a possible cause of cir-

In five cases of proved liver les ons the test failed Three were cases of hepatic syphils in adults. One was a case of very small cancerous metastasis and one a case of xtensive h er metastases. In the last mentioned case repeated tests gave negative results

A positive test always means serious disabil ty and in the absence of bile-duct obstruction a se ous lesion of the liver A negative test however does not always exclude the presence of senous I ver les o s The authors reg rd 5 per cent of the dye in o e hour scrum as suspicious and over 8 per cent as con clusive of impairment of liver function

The simplicity of the test and the fact that absorption from the intestines and e cretion by th kidneys are not complicating factors r commend it CYRIL J G for clinical use

J T and Warthin A S The Occurrence of Hepatic Lesions in Patients Treated by In tensive Deep Roentgen Irradiation Am J Ro it 1 1924 III 27

In three cases of abdominal malignancy treated by Case at the Battle Creek Sanitarium with massive deep roentgen ray arrad ation, autopsy revealed remarkable lesions in the liver of a type and distribu tion which made it practically certain that they were the d rect result of the irradiation. The treatments varying in number and distribution over a period of time were given in fifty to roo minute exposures at 50 to 70 cm through 1 mm copper plus 5 mm sole leather and r mm aluminum filter with an effective

voltage of 200 000 From their study of these three cases the authors conclude that deep roentgen irrad; tion of the ab domen of a degree producing well marked roentgen sickness produces lesions not only in the gastro-in testinal mucosa but also in the epithelium of the biliary tract particularly in the medium sized and smaller bile ducts This injury is evidenced by vacuolation swelling and necrosis of the epithelial cells of these ducts and by a slow and atypical re generate n attended by the formation of syncytial grant cells blocking of the ducts and result ng bile stasis and bile hamorrhage. In addition there is some injury to the her cells at the periphery of the lobules but the microscopic evidences of this a e much less d st not than those of the damage to the bile ducts. The liver cells appear to be more re sistant to the irradiati n than the b le d ct ep theli um The h patic as well as the gastro intestinal in tury must be conside d a possible factor in the pro ducti n of roentgen sickness

CARL D ARIDHOLD M D

Walters W and B wier J P The Pre Operati e Preparation of Patients with Obstructi e Jaundice An E perimental Study of the To icity of Intra enous Calcium Chi ride Used in the Preparation of Patient S r Gynce. Obst to 4 XXXI 00

During the last three years the intravenous ad m nistration of calcium chlor de has become es tablished in the Mayo Clinic as a routine proce dure in the pre operative preparation of patients with obstructive jaundice. That it is a factor in the red ction of the s rgical mortality in this group of cases is shown by the operative mortality for 1022

The possible occurrence it is ephrits in the course of obstructive jaund e is generally accepted The incidence of renal and hepatic in ufficiency in these cases at the Mayo Chnic h s been reported The two may be easily differ nt ated the renal insufficiency bing associated with ces at of the drai age of bile and evide te in the rine of a progressing in phints and a steady rise in the blood urea level. This renal complicition his oc curred in postoper tiv convalescence in cases with and without a pre-oper tive course of i tr venous calci m chloride R nal insufficiency followi g the

Litarenous administration of calcium chloride gue use to the question as to its toxicity. In this st dy the attempt was made to include or exclude estravenous calcium chloride as a factor in the production of such nephritis

In the routine pre operative preparation of pa tients with obstructive jaundice a 10 per cent a preous solution of calcium chloride is given intra schools daily for three successive days at the rate of 5 c cm for each 60 kgm of body weight to patients within the normal range of adult body sught Such a series of injections has been called a therapeutic course Reducing this do age to I unit for each kilogram of body weight 8 rngm of calcum chloride for each kilogram were admin stered to the dogs used in the study All neces ary surgical procedures on the animals were carried out under ether anasthesia and with the employment of sterile technique The various determinations made in the investigation were (1) the rate of excretion of calcum chloride from the blood stream after its intravenous injection in various amounts (2) the lethal dose of calcium chloride injected intraven ously into normal and jaundiced dogs (3) the effect on the kidneys of normal and mundiced dogs of the mertion of calcium chloride and (4) the effect on the hearts of normal and jaundiced dogs of intra

I nous injections of calcium chloride The follo ing conclusions are d awn

I Following its intravenous injetion in a 10 per cent aqueous solution calcium chloride is rap d ly eliminated from the blood stream and shot's no tendency to accumulate in the blood. Following the therapeutic doses used in the e p riments reported the blood calcium content returned to its normal level within t o hours

The lethal dose of calcium chloride admin stered intra enously in 10 per c nt aqueous s lut on at a uniform rate of 1 c cm a minut was 256 4 mgm f r each kilogram of body eight n normal dog ard 3%66 mgm for each kilogram of body weight

in) undiced dogs

3 Following continu d nj ctions f al ium thouse mel ding therapeutic d es gi n to normal and jaundiced dogs no es d ne of a t are effect on the kidney could be d mon tr ted In

ca') or micro copically

4 The cardiac effect of the therapeut do s f ca'oum chloride used in the tul r ported a stle prod ction of vari us alt ration in the pul rate Tone doses can, d disturban s of conduction and ectopic origins of impule and wh n ca fied to the fort of greater toxicity produced entric lar fb 1 lat on thich was followed b death

Idd ES and Budn & G P stoper ti e Stricture of the Comm n Bile Duct 5 1 to 4 l x 2 o

Lustoperative stricture of the comm n duct is u uall) the result of operati traum I don also I walized affection It m s Decros f the wall of the duct. The s mptoms may be the e of pe ma

nent or intermittent biliary ob truction and often suggest stone in the common duct

The patient is very ill and a grave surgical risk because of jaundice cholangeitis and impairment of the function of the liver. The site of the stricture is usually at the juncture of the cystic and common ducts

Operation should provide biliary drainage and restore the normal course of the bile

The results of operation are fairly satisfactory considering the hazard and technical difficulty and the oth ry ise almost hopeless nature of the con-

Gr ffiths H E Furtler Relation hips of Dis eases of the Gall Bladder to the Secretory Functions of the Stomach and Pancreas La 1 o 1 C 1 ot

The author reviews briefly the intricate lymphatic and nervous connections between the call bladder stomach duodenum and pancreas. The lymphatic ves els of the gall bladder extend downward along the common bile duct and before terminating in the retropancreatic lymph glands anastomose with those of the first portion of the duodenum and the he d of the pancreas. Hence a route of infection is readily demonstrated between the gall bladder duo lenum and pancreas

The v gus is the motor nerve as vell as the secret is nerve to the gall bladder and bile passages The pancre's derives its nerve supply from both the sympathetic and vagus Chrically the close a sociation of the g ll bladder panereas pylorus and duodenum is best hown by pylorospasm

In investigating the secretions of the stomach and princreas (riffith made analyses of one hour test meal us ng as the standard meal a pt of weak tea without sugar or water and 2 oz of toast. The stomach residuum was a pirated through the stomach tub one hour later an i tested for free and total a tista mineral chlorides and d gestive activity

With the us of the te t meal hyperchlorhydria as oc ated with regurgitation was found in to per c at of the cas s of cholecystitis with or without th pre en e of gall stones A review of the literature shows absolutely contradict to results. Irritation of the muco a of the g libl d ler cau es a reflex irrita bility of the vague which produces an increas in the amount and acidity of the gistric ; ice relaxa tion of the pylorus and duoden I regurgitation

The clinical features of catarrhal pancrentitis are period c attacks of nausea and vomiting a sociated with diarrhera and bulky stools laden with un li

ersted fat

At operation the head of the pancreas is found swollen and red and the condit on appears pl inly to be an inflammatory process. In the greater percentage of cases the infection is primary in the gall bladder and is carried to the pancreas through the I mphat cs Acute pancreatitis is gen erall a sequel of pancreatic lymphangeitis

JOH W / TOW MED

Blackford J M and Dwyer M F Castric Symptom with Particular Reference to Gall Bladder Disea e J Am M Ass 1024 lyxxi i

The authors review the findings in 1 650 cases with gastric symptoms

Appendicitis may be followed by or coincident with peptic ulcer or cholecystitis but its rehef will not cure a lesion in the upper abdomen even though the latter was caused by it In many cases of this type poor surgical results are being avoided by better clinical diagnosis and the use of a larger abdominal incision

Eleven per cent of the patients with dyspensia were found to be suffering with peptic ulcer and 3 per tent from gastric carcinoma. The ratio of

pastric to duodenal picer was r 6

The approximate relative frequency of abdominal organic di ease causing di spepsia in the series of cases reviewed was gastric ulcer one gastric car cinoma to o reflex appendicitis four duodenal ulcer six and rall bladder disease twelve

Dyspensia in adults was attributed to gall gladder disea e in near v 20 p r cent of the cases

In most cases of gall bladder dyspepsia the dag nosis must still be made by the older clinical methods

Di spensia is caused by general systemic diseases

in approximately 20 per cent of cases In approximately 4 per cent of the cas s the authors were unwilling to hazard a diagnosis of the OCRE NADRAU MD cause of the dyspensia

Kap inow R Engle L P and Harvey S C Intra Abdominal Biliary Exclusion from th Intestines Ch I cyst N phrostomy a New Method S re Gy et & Ob 1 924 xxxx 6

Many different methods ha e been devised for excluding bile from the intestinal tract. The physiology of bile its metabolic funct on and whether or not it is essential to life are problen s of great im portance Most of the operative methods of bile exclusion have been attended with the danger of

infection of the biliary passages

The authors describe a nev method of intra abdominal biliary exclusion whereby the b le may he d verted from the intestinal tract for long periods of time without incurring any of the difficulties of previous methods This new operation consists essentially in the anastomosis of the gall bladder to the pelvis of the right kidney and the ligation and division of the common duct It may be per formed in one or two stages Through a high right rectus meis on the gall bladder is expo ed and freed from the liver bed to within 1 cm of the juncture of the Ostic and hepatic ducts. The right kidney is then freed from its bed and a longitud nal incision is made through its cortex down to the pelvis. An opening from 1 to 2 cm in diameter is next made through the most dependent portion of the gall bladder and the circumference of the new stoma is sutu dinto the kidney pelvis by a series of mattress

sutures through the entire thickness of the kidney The second stage of the operation consists in isolat ing and ligating the common duct

Bile immediately appears in the urine while the snimals retain their pre-operative weight and gen eral good health The stools are clay colored being free from bile pigment. The chol cystonephrostomy is soon covered by a thin capsule like layer of adhe sions The right kidney atrophies only a shell of renal tissue remaining and the left kidney undergoes compensatory hypertrophy Microscopic study of the urmary bladder kidney and liver have revealed no evidences of infiction

This new method does not permit determinations of the total biliary output but it allows pigment studies and insures a biliary fistula free from infection and with none of the difficulties of d ess ings or collecting apparatus

JOHN W NUZEM M D

Eggers C Acute Pancreatitis A n S rg 1924

TXX 103 The two theories regard og the cause of scute pancreatitis are (1) That it is due to the entrance of bile or duodenal conte to into the pa creat duct and (2) that it is an infection carried to the pancreas by means of the lymphatics. Both of these presuppose a bacterial invasion. In the author's opinion this is incorrect. Eggers presents the histories of six rather carefully observed cases which seem to support his belief that acute pa creatit s is the result of the action of liberated pan creatic ferments on the surround ng tissue and that infection has noth no or little to do with it

All of the patients were stroken a ddenly when they were apparently in e cellent health and the symptoms i e e at once ref rrel to the upper abdomen The re was no early elevation of the pul e rate or temperature and no cute inflammatory signs were observed in any rgan at the time of operation Cultures taken from the perstoneum and rétroperatoneal tissues were sterile

Eggers believes that the gall bladd r 1 d bile are probably c nnected 1 some way it! the de elop ment of acute pane e tit! Wheth r the ble enters

the pancreatic duct or heth r the duct I ecomes temporarily obstructed using incre se i press re and s bsequent rupture s impo ible to state It is also impossible to st t wheth r n rm I bile is ble to produce acute pan atitis. Alcohol sm obesity preg ncy etc a me ely co tributing f ct rs nith tth y bring bo to ndt nsfa o ing chem cal alter to of the bil or f r spasm of the

sphi ete and congestion of the live

The mot impo tant a d pers t nt imptom is severe c boky p in a the pg trium Vomiting is usually pers t t and symptom f c llipse are frequently not d Th l ck f ph hal sig s as compared with the se crity of the sympt ma is character to While the is e q to t nderness over the upper al I me the is I til r no m scular rigidity

Acute panceatitis is most commonly mistaken for chockysitis peritonitis from perforation of a viscus and acute aleus. The difference in the miseasty of the swmptoms and the slight di tention of the abdomen with only alight or no rigidity and the absence of obstipation should suggest acute the absence of obstipation should suggest acute the absence of the properties of the absence of the absenc

The treatment is surgical whatever the stage of the condition. Relief of the tension in the pancreas dump the early stage of the disease and drainage of the pentoneal emudate which is extremely tower and responsible for the general symptoms is acrom placed by surgical measures. The best approach is shough a median or inght rectus incision. Large the pentone is a more proposed in the pentone in the pentone is a more distribution. The pentone is more than the pentone is a more distribution of the pentone is pentone in the pentone is and the retropertioneal space for drainage. If the gall ladder is diseased and if the patients is general condition will allow the operation a cholecystectom may be done as associated gall bidder pathology.

may be the cause of subsequent attacks. The prognosis depend upon the time at which operation as performed. It is best if only a portion of the gland is unoised and especially if the tail which of the head is affected. Recover from the many take place without operation Desith suically yet take place without operation. Desith suically part of the properties of the pancreas or a toxermia produced by Doducts of the pancreas or a toxermia produced by this recross.

Peck C H Tuberculous Cost of the Spleen
Splenectomy R covery S g Gy c = Ob 1
19 4 XXXX 16

Primary tuberculosis of the spleen a rare but distinct entity is curable by operation in favorable cases. It thout splenectomy a f tal termination is locatable.

Splenectomy 1 indicated in certain cases of secondary tuberculosis of the splene when the splenic les on is predominant in dt his supposed IT mary lesion is a healed t berculosis or mobile to the splene lesion is a healed to be to the splene lesion is a healed to be to the splene lesion is a healed to be to the splene lesion is a healed to be to the splene lesion in the splene lesion is a healed to be to the splene lesion is a healed to be to the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion is a healed to be the splene lesion in the splene lesion in the splene lesion is a healed to be the splene lesion in

Polycythamia occurs 1 a cert in perc ntige of cases and p obably add to the gra its of the prog no is but does not contri indic te operation when the plenic tuberculo is 1s the dominant fact r Th prospect of a complet cu e and restoration to health of pat ents surviving plenic t m) is demo

str ted by s v al case report

Leck reports a careful st dv sl a ne ca e

S WITL KARL M D

Larrabee R C. Spl nect my Its Fnd Results nd Clinical Indications Am J M S 19 4 1 m 47

Splenectomy is indicated in most cases of clinical splinic anamina but as minipersols with this condition who are not operated upon him comfort for years it is reason himself to postpone operation until the anamina becomes incapacitating. Even

after ascites and gastric hamorrhages have begun operation will often result in a chincal cure. In hamolytic jaundice operation i generally indicated in the acquired and sometimes in the conjenital cases and gives complete relief.

In alcoholic and other curhoses of the liver surgery is indicated only in selected cases—chefly those in advanced stages with ascites. As the effects of splenectomy are probably for the most part purely mechanical the best results will be obtained when the spleen is unusually large and the relief to the portal circulation is correspondingly great. If soft cases show amenia and leucopeania special is soft cases show amenia and leucopeania pathologically identical with cases of Bantia s disease and splenectomy; indicated very definitely.

In Gaucher's disease splenectomy is generally advia table and in von Jaksch's disease it is sometime necessary. The enlarged spleen sometimes seen in spip hi malaria and other chronic infections is not always innocuous and in certain reported cases its removal has been followed by marked improve

It is generally recognized that splenectomy is contra indicated in leukemia. Few patients have survived the operation and even when skilled surgery has given a successful operative result there has been little or no improvement in the patient's condition.

Primary polycythemia is another condition frequantia associated with splenomegaly in which splenectomy is contra indicated on both theoretical and clinical grounds. With regard to the advisability of this operation in pernicious aniemia opinions differ. It may be safely said however that while splenectomy has a place in the treatment of this of sease its value to limited and the results it gives discovered the splene such that the splene such the such discovered and the splene such the splene such that while such discovered in the splene such that the splene such that the splene such discovered in the splene such that the splene such that the splene such that the splene such that the splene such that the splene such that the splene such that the splene splene such that the splene splene such that the splene such th

A delay of several months is generally advisable Other ic one may find out too late that he has mistaken leukamis in an aleukamic stage for Bant's disease or polycythamia for hamolytic Jaundie Worker H Kanty MD

Fool E II Splenectomy for Splenic Anamia Continued Hamateme is Due to Thrombosis of the Splenic Vein As 5 6 1974 lxxx 155

Pool reports the case of a man \$4 years of age who omitted blood when he as a man \$4 years of age who omitted blood when he as a man \$4 years of age who omitted blood when he as a man a frankfusion in a followed by plenectomy in the patients was followed by plenectomy in the patients was followed by plenectomy in the patients was followed by feet fourther patients and second in the patients of the patients was a followed by feet fourther patients and segment to patients and a feet for the patients was found to be of a pecula white to globy. Action seeme of dor microscop examination showed lands of mature fif from sometic te tas ur and \$6 error than \$6 or a pecula with the toplor \$1.00 to

10 4 111 26

large blood vessels partially obliterated by what was apparently an organized canalized thrombus

MISCELLANEOUS

Carman R D and Fineman S The Roent genological Diagnosis of Di phragmatic II mia with a Report of Seventeen Case Rad of ty

The authors report seventeen cases of diaphrag matic hernia studied roenteenologically at the Mayo Chaic The incidence of diaphragmatic herma has been one in about 23 000 patients exam ined As a rule the roentgenological d monstration of a diaphragmatic herma offers no diff ulties Occasional failures to demonstrate the condition at the first roentgenological examination may be ex plained on the basis of five factors (r) its develop ment as a late sequel to paradiaphragmatic purulent processes (2) its development from trauma or acerat one of the diaphraem months after the injury (3) the occurrence of spontaneous temporary reductions (4) the roentgenological demonstration of only one of a double herma and (s) failure of the opaque medium to pass through the diaph agmatic opening because of strangulation or because of the nationt's position during the examination

Sold viscera alone may form the hermal contents.

In such cases the oral or rectal administration of a barium suspension cannot reveal the pre eree of a daphragmatic herma. Herma of the kidney may

sometimes be demonstrated with the aid of pye

While the roentgenological dit goo is of daphing matic herais is usually simple and conclusive it is not infallible. After the administration of an opaque medium diaphriganatic herma must be distinguished from michanical elevation and true eventration of the diaphraga hour glass formach and ocophagueal discriticula. The length of the coophague should be determined reentgenologically for one of the cases reported the ocophague was probably of the so called congenital short type

In such cases reduction cannot be effected surpreally. Roentgenological stude so the thorus are commonly made in cases of disphragmatic herals because the symptoms are often referable to the chest. Roentgenograms of the chest may tablust are windered of the presence of abdominal 3x cera within the chest but in some in tances such evidence extremely slight and consequently the her in may be mistaken for one of a n mbre of conditions commonly seen in the chest. A stress of the control of the contro

In all cases an endeavor should be made to a certain the exact is too f the hermal opening. The determination of this point is of importance to the sur con in his choice of operative approach. Co-operation between the clinician and round goolog its is necessary for the best results in the diagnosis of diaphr matic herma.

GYNECOLOGY

UTERUS

Zimmermann R The Relative Value of Operations for Correcting the Position of the Uterus (Bet 1g 20 Be tu g d r O) attone Lage korrecturd Uterus) 21 k f G b i i k O k 1933 ltrus 137

Jumermann compare the Alexander Adams folkage on Leopold Czerny, and Baldw operations for the correction of retro leviation of the ut ru on the bas of the results in 386 cases op rate i upon a the course of three years. Of 2 8 cases in which the d pixel durens was adherent ato 6 e operated upon and of 38° in which it was mobile 175 of the property

With regard to the technique the author titles that for dissification of the field of operation 5 per tent tannin alcohol was u cd in tead of tincture of ideas at appears to have a more fa orible in

fuence on wound healing

The conditions essential fo the Alexand r Idams operation are free mobility of the uterus absence of sibes on selectensia and normal diverse absence of sibes on selectensia and normal diverse and the remain does not favor a unitar tid operation. In 18 is es the period of herding ra ged from eighteen to tention or days. The cours seemed to be one what better when the op rath in wa performed in 17 general ansiste is at in hin 1 as doone under call anasthesia. (yound nif ct on in 81 cas's and 1950 operative herm t main one case of the sixtic vipit cas sope ated upon u der ge eral anasth is upon different in the control of the sixtic vipit cas sope ated upon u der ge eral anasth.

m three cases f th fifty cr of er t i upon und r i cal a aesthe ial

With regard to the viginal princarel in the same time the author II attitude to the treatment of the treatme

For complete m bile r t flexion is ng imp toms the Alexander ad m prions the pr

cedure of choice

Vagnal op at o h h i lud ope ng of the solomen are menti ned i b ellv A prerequi te for these is the r mov l i any inflammators protested of the de a l leu ovet ount should be made to make su eth t the ci ol tenti flamm

Abdom: I fix tion by Othausen's m thod w's done 32 tim -twenty four t mes for mobile retro-

fiction twice for relap e following a Baldy operation ixteen tim s when there was complicating adnexal disease and six times in apparent f vation caused by uction of the corpus of the retroflexed uterus on the mooth personeum of the pouch of Douglas The other complications of adherent retroflexion were adnexal disease in sixty seven cases chronic pel ic puritoritis in thirty four use chronic appendiciti in twenty four cases and myoma in one ca e median longitudinal in 1 on was made with splitting of the posterior rectus sheath and transverse pune tration of the uterine attachment of the round liga ment according to Henkel's method u ually und r The length of t me the patient general rarco 1 y as confined in the hospital was about three weeks At the end of the time the orthope lic re ults were good ev ept in two cases and in the e exceptions the symptoms er reh ved

In eventy two women examined from two months to to o years after the operation the position of the uteru as corr ct in 97 per cent. There was one relipse due to separation of the uteru and one retrofleuon of an anteverted uterus. In o per cent th functional result vas unsati factory, but the

th tunctional result was unsate actory to the ce all asses it is severe adhereal complications at the time of operation. The trouble may have been only a stump evudate in which case improvement may still be looked for Dismenorthera and in a stheme to more constipation it mained un flight manned
used by adhesion
The Leopold Czerny op ration should be employed only hen sternitty 1 posturely assured In the pro-dure the uterus is fact by the broad ur face of the f adus in tead of by the uterine end of the contract of

It is guis and other inflammations of the a linear There were no derths but twenty as women had a stump exudite on the r disch rge from the hospital Ex mination from one to three years after the oper tion sho ed that among thirty nine patients there was only one rel pse I in twenty four (62 sper c nt) there v as a complete cure and in thirteen im po ement I in two cases the symptoms persisted

s the re ult of the previous severe disea e of the

Raldy a operation hich agree in its ess tutals with a proced redescribed undependently by Tranke as perfo med on twenty two women. The round ligaments a cet drawn through the broad ligament and issuiter to the posterior surface of the uterus and at the same time the two loops were sutured to gether. D sease of the address or a tumor was presented to the contract of the contract o

ent in twenty of the twenty two cases of mobile retrofle ion and in twenty three of the cases of ad herent retroflexion. In most of the cases the opera tion was as ociated with a complicated procedure on the a inext and in twenty five case with appen dectomy Many of the patients had a stump exu late when they were di charged from the hospital and in some instances this wa due to a hæmatoma in the perforated broad I gament

The immediate orthoped c result was good there was only one relapse but in the examination of thirty six women from one to three years later not fewer than ten (28 per cent) were found to have a relapse The latter were subjected to a second operation per formed by the Olsh usen technique Zimmermann seeks the cau e of the frequent relap e in the extensibility of the round I gaments from which the ut rus is suspended and thus exposed to pressure from in front and behind

In addition to the e cases Ammermany has or erated for retroflexion by intraperitoneal reefing of the ligament in six cas > of mobile d splacement and six cases of a therent displacement. In five of the women a ho returned later for examination a sati factory functional and orthopedic result was found

FLESCH (G) Hirst B C Surgical Treatm at of Complete Uterine Prolapse 1/la t c M J 10 4

Prolapse of the uterus is dependent upon an in pury to or exerstretching of the cardinal I gaments in the bas s of the broad lighments and a s m lar

traumatism to the uter sacral ligaments

In every operation for prolapse of the uterus there are three factors to be taken into account correction of the defect in the two sets of ligaments wh ch support the uterus in its prop r pos tion and incidently as there is so often an associated recto cele and cystocele the proper operati e p ocedures for these difects p rformed s parately The author describes the technique of shortening the card nal and uterosacral ligaments

In discussing the repair of the posterior vag nal wall and pelvic floor Hirst emphasizes the fact that the tear in the rector ginal fascia is at right angles to the tear through the tri ngular bigament must be borne in mind when the stitches are inserted

The buge dilatation of the rectum accompanying rect cele must be corrected by proper restorat on of the rectovaginal fascia and the triangula ligh ment and by keeping the rectum in it proper posi tion and preventing its undue distention Su h measur's ill restore the contractile power nd diminish the abnormal capacity of the bowel Electrical stimulation should be cont ued for som ROLA D S CRON M D time after the operation

Jol pstone R W: Adenomyoma of the Uterus with Tuberculous Infection J Ob 1 & Gy ac B il Fmp 9 4 x 243

The author describes the specimen in the case reported as a uterus presenting simultaneously (1) two diffuse adenomyomatous tumors in its nos terior wall which were clearly of endometrial ongin and (2) disseminated tuberculous infection of the endometrum the muscular wall the tumors the left tube and possibly al o the right tube

As there was no trace of peritoneal tuberculos s in the specimen as no sign of periton al involvement was noted at the time of operation and as the tuber c lous infection was much more marked in the uterus than in the tubes the infection was probably blood borne and secondary to an old tuberculous focus in the lungs. The author assumes also that the entrance of the tuberculosis into the tumor was favored by the glandular prolong tions into the a lenomyoma ROLAND S CROY M D

Cron R S End Results in the Treatment f Carcinoma of the Cervi B , 8

In 380 cases of cervical carcinoma admitted to the obstetrical and gynecological clinic at the Unitersity of Michigan for diagnosis the condition was a th early stages in only sixty. In the remaining 320 it was regard d as far advanced or at least inoperable from the standpoint of a radical W rtheir operation Appro mately one half of the patients were given's me form of treatment. Ten or more agents were used in attempts to destroy the disease which lat r destroyed the host Rad um was not available for treatment Eighty five patients were t ac d

Every pat e t e cept one eventually died directly or indirectly from the uterine malignancy. The one exception was a w man 60 years old who is alive and in good health three years and eight month after the excision of the cancerous tissue a d cauterization of the cervix. The best results were obtained with the actual cautery The results were not improved by the adoption of the Percy techniq e The profuse and foul d s harge and fre a ent bleeding were rel e ed temporarily

Of the sixty patients with early carci oma who were subjected to a radical abd m al operation e ghteen (40 9 per cent) a e living and well five or more years after the oper tion There was a pri m ry mortality of 26 6 per ce t due to shock ith nd without hamorrhage Sixty per ce t of the patients a rviving the ope at o we e p rmanently

The arti le 1 ummarized as f llow

The life of women 1th ad anced ca cinoma of the c rvix treated with p k r the actual cautery is t m tenally lengthe ed altho gh the yag nal d cha g and bleed ng m y b tempor nly

2 The percentage of cur s in women w th ea ly carci ma who survive the d l abdominal op ration is fa orable. Howe er when all cases of cervical ca er re co s de d th result from su g ry al ne re mo t discou aging

3 De p high voltage \ ray the apy giv s e cel lent palliat v r sults a d in dv ced rvical carci ma has repl ced surg ry

4 Radium and the \ ray should be used in all tass of cervical cancer

5 Whether in early cancer a combination of tadum or the \ ray and surgery will give better ead results than radium and the \ ray alone is still a disputed nuestion

6 Publicity and propaganda have not materially industried the incidence of early and late cervical cancer

MISCELLANEOUS

Dannreuther W T The Inc dence and Significance of Urogenital Symptoms in Gynecological Patients Am J Obst & Gy & 1024 103

A tudy of 600 consecutive private case record indicates that in approximately 20 per cent of Enecological cases a extoscopic e amination is Decessive for the establishment of a diagnosis Mour 15 per cent of praccological patients have some definite lesion of the unnary tract. A larguanties are deprived of prompt relief from symposis to the control of the control o

It is imperative for the genecologist to have a working knowledge of cystoscopy. All genecological patients should be catheterized on their first sixt valuable information can be obtained from inspection of freshly catheterized urne. A cnal function test should be made before most elective gynecological operations of the control of th

Actabo

Pichits occurs frequently n women and is often overlooked. In cases of inflammation limited to bidder fever is con picuous by its absence. In a small pircrafter of case only unman's simptoms are caused by pelvic les ons without associated distributed to the control of the con

Of the 119 pat eats constituting the basis of this investigation fifty three had unnary symptoms only and sixty six had both u ary and p live symptoms. The fallact of returning upon the symptoms for diagnosis is well illust ated by the causate factors discovered. These were lessons of the unnary tract in fitty-one cases le ions of both the unnary and pelvic organs in for to four case leasons of the pelvic organs only in fourteen cases and trenote less ons in the cases.

LOW RD L COR ELL M D

Galletty A Presacral Tumors of Congenital Origin J Obst & Gy a B t Emp 9 4 XXXI

The author reports a case in which a cost composed of a pelvic port on and a larging juteal portion which were constricted from each other by the margin of the sacrosciatic foramen was removed by abdominal incision combined with an inci ion through the right gluteus maximus muscle

The possible sources of presacral tumors of con gental origin are (1) d chotomy of the fetal axi ith the production of (a) monster formation or

ith the production of (a) monster formation or (b) a separated embry on kinch later becomes para sith and blends with the autosite or 1 included in the autosite (1) a growing point cell (3) a wander ing totipotential sex cell (4) a secluded notechordal cell (5) a secluded cell of the neural tube (6) the postanal gut (a) persi tence and continued growth of an embro noir erimanto r (b) secluded cell of the postanal gut and (7) the neutentine canal in Galleth's onmon the source in the case re

ported was one of the last two mentioned

ROLAND S CRON MID

Clark J G Rad um in Pelv c Carcinoma f

As the result of a study of cases of pelvic carci noma in which a 6 ever cure was obtained by radium therap the author uses 100 mgm of radium for twent four hour application. He sometimes makes two applications but never three He practically neer applie radium without anxis thesis and he also's thoroughly packs the vaginal thesis and he also's thoroughly packs the vaginal readium treations have been as not the fastials following radium treations:

In conclusion Cl rk presents the statistics of ari us gynecologists who have used operati e measures for the relief of carr norm and proves that the end results were no better than those of radium and economically not as satisfactors.

ROLAND S CRON M D

Cullen T S A Few Practical Points in Pel ic Surgery 4st t M J 924 xxvn 619

The author calls attention to the fact that profuse harmornage may occur from injury to the labia and that it should be controlled by the use of non absorbable sutures. He advises poster or vagnesceion for cases of doubtful pelvic pathology and suggests that when laparotomy is done the vagnal incision be used for drainage.

A wound that separates with hæmorrhage after a perineal or cervical operation should be resultured. The author uses a cautery knife when excluse the mark n of careinoma of the labum.

Postoperative bleeding from the cervical stump can be controlled by through and through catgut

utures inserted by way of the vag na

Menorthagia in the child bearing age is most
commonl due to hyperplasia of the endometrium

and can be cuted by repeated curettage radium therapy or hysterectomy. Multilocular cystadenoma when adherent to the bowel should be sengrated by leasures of the

bowel should be separated by lea ing a part of the laminated cyst wall attached to the intestine

The author next discusses various methods of hardling myomata of the uterus offering such sug gestions as myomectomy bisection amputation at the internal os first and methods of caring for the uteter. He recommen is temporary packing for the control of oozing. When removing a pus tube and leaving the uterus to removes the uterine corns in order to reach all abscessed areas. In inflamma tory conditions of the pelys he employs blunt dis

section

In infections of the broad I gament occurring after the puerpersum the focus should be open dup by a gridiron incision and frantage should be placed retroperstoneally down to the induration. The culle sact of Douglas should not be opened in these cases of infection.

Attention is called to the tape method of exposing a retrocercal appendix in the use of a median sunra

bupic ruct tou

Cullen next lescribes a method of operating upon a malignant mass compo el of pelvic organs and intestints. To obt in his berings in untraviling a liberent bowel with multiple fistulæ the surgeon should go down to the han lle of the fan—the mesenter.

When a patient has rectal discomf it during m naturation and a nodule back of the cervix the possibility of adenomyoma of the rectovaginal

sentum h ul l be considered

In conclu in Cullen empha izes the importance of all possible conservation in pelvic surgery

ROLA DS COS MD

Smith H I The Find Results of a New Literine
Shell Operation for th Reli f of Cystoccie
S I Cy C Oh I 10 4 2 1 100

The operation described by the author fir the telefoldary protruding explored constraint has he ingo the certs to the transgul rigam in the care and a likworm sutures after denufation of the extraord mucous membrane. From the end results in the control and the control a

The operation as leser bed is fe

is permanently retay ell in the correct six n.

The simptoms whether due to leaging down is irritation of the bladder are completed releval in

at least of per cent of the cases

The fest results are of tained as would be supposed when the ulcrus is support 1 for the

sort of intra abdominal operation

Thorough repair of a t ra or relix I perior as and any complicating rict cele is e sential. (re t relief can be expected even in case in h h it

condition does not warrant opening the at 1 mm.
The fixat on of the uterus a less ril i does not at the fixed and discomf rt on the outrary to the followed by an unexpected le 1 of

Vi anced age seems t le no bar to the perstan

Rot To S Cas MD

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Findley P Hemorrhages of the Pregnant Literus 1 173 ta Sal M J 1924 18 00

Harrotthage can ed by abortion is more apt to be intractable during the third and fourth months of pregnancy than at any other time. The reason ; to be found in the fact that at this tage the pen or ampullars layer which I the natural point of cleav age in the mature placenta has n t been d velog i and the chorionic valle hold fast to the uteru

The premature separation of the pl cents is much more frequent than has been thought. The is eve denced by the frequency of old blood I ts on the placental urface It i important to m mb r that the amount of blood showing extern il s not an accurate indication of the amount of hamorrhage as a cons ferable quantity of bloot may be held back by the head or breech impa ted is the birth canal. Of greatest value is the finding of enla se ment and tenderness of the uterus n a sociation ith general signs and mptoms f a e ere harorrhage which are out of proports a to the evi dent loss of blood. The ab en if fetal he rt tones indicates a complete eparat n and the need for

casarean's clion The hæmorrhage of plac nt præ 1a 1 cau ed by the retraction of the fibers of the for er segment of the uterus w thout a correspond g increase in the pla ental area and the opening of the cervix which severs the attachment of the pl enta In the author's opinion the treatm nt f choice in the majority of ases and under Il roumstances i the introduction of a ag nal pa k of st rile gauze fol lowed by internal polic version and manual

d'i ers Hamorrhage during pregnan seldom due to utenne fibr ids as these gro the usuall pre ent pregnance

Cancer of the uterus 1 r e in the childbearing age and when it occu s in the cervix seldom permits pregnancy PI R BLEN SLEY M D

LABOR AND ITS COMPLICATIONS

Gnathmey J T McKenzie R A and H d on F J P int as Cl ildbirth by Synergistic M thods (S c nd Paper) 1 J (16 l & G) 0 4

The te h sque described c ll f f om one to th ec hypodermic injections and one rect I is t llat on The first hypodermic inject in is given at the same t me as in the Fr burg method ic aft rl bor is R ll on its way when the p r fur or fe minutes ap rt and l ting thirty or m It consists of /e gr of morph ne di sol d

of a 50 per cent olution of magnesium sulphate No morphine is given later. The rectal installation i 2 , oz of ether 1th 10 gr of quinine hydrobromate in 2 fr of alcohol with enough olive oil to make 4 oz The doctor or nur e comes in contact with the pa tent only four times at the mo t and often only t ice. The magnesium sulphate i in 2 ccm am poules or 30 per cent strength. If the first hypomarked sedative effect the lerm inject on ha instillation is dela ed posibly one or two hours lut if it does not have such an effect the instillation given thin from fifteen to twenty minutes As u ual hen any retention enema is given the t tient hould be comfortably on her left side the atheter should be in cried 4 in in the rectum from three to ten minutes should be taken for the instilla tion and the catheter should then be gently with drawn The synergist c effect of the drugs is usually noted within fift on minutes, the patient becoming ers quiet an I son etimes sleeping |Even an ex hausted woman may be I ghtly anæsthetized but the ideal condition sought is analgesia with uncon ciou bess

The effect continues for about four hours but if it is insufficient one or two additional hypodermic m cti as of a c cm of so per cent magnesium sul thate will deepen it. I ain is el minated contrac t one continue labor is not delayed and the memory of e e ts 1 either clouded or completely obliterated Sometimes no anæsthetic i neces ari even when the head is pa sing over the perineum and sometimes no supplement is required for an episiotomy the r pa r of lacerat ons or other necessary work mother may not be awar of the birth until she is told of it

As with all drugs or systems the effect varies with the ind adual patient her confidence in the doctor the maintenance of quiet the gentleness of the manipulations and other factors. Loud talking the rattling of pa and thoughtlessness in other wass will mar what under other circum tances might be an ideal result. The method has been tried in 300 cases

This procedure must rot be confused with oil ther anaesthes a In Thaler and Huter's series of c ses in which only oil other was used the dose vas repeated twice in tw nty five cales three times n twerty c es f ur tones in fifteen cases and five times n twelve ca es E ghty eight patients re cer ed an average of 3 to 32 oz of ether and one as much s az of ether With the synergists
the inject on is never rep ated. The total amount oz 1 never exceeded The reduced amount of ether necessary is aplat ed by the synergi ing of the magnesium sulphate with the ether

EDWARD L. COR. ELL, M D.

Gilfrich T: Rupture of the Vessels of the Um billical Cord During Birth (Leber Rupt r d N beischausglese utelre but) // k f Gb thu Gynak 1923 1 v 1610

Complete rupture of the umbligal coal is I equently reported in the literature but the number of cases of isolated tearing or injury of the umbli cal artern or vein is small. Most of the isolated ruptures occur during thour in the vasa prevain of the selamentously inserted umbli cal cond in the vasa velamentously inserted umbli cal cond in the vasa velamentously inserted umbli is to be a shall. In paries to the vie el wislish, the based while I is under old views in which operation makes no costan-

In the I terature are reported thurts to cases of velamentous insertion of the umbilical cord in which a tear or other injury of one or more of the umb lic I ves els occurred Von Winkel of served velam ntous insertion in o 8 per cent of all births Other obstetricians give its incidence as from 0 4 to 0 9 per cent. To suffer injury the ses els must has close to the I wer pole of the ovum. In twenty four of the thirty two cases reported the child was dead Von Winkel til ces the infant mortal ty in cases ! velamentous insertion at 18 per cent. The fact that eight of the children in the reporte I cases were born alive is attributed by Rivet and Cerharts to the actuats of the labor pains which hastened delivery and to retraction of the ends of the torn vessels In three cases (Zoeppritz Boehme Fetzer) the de hvers was artificially en led. In the case reported by Schicke the small siz f the torn vessels and the proxim ty of the insertion of the c r f to the margin of the placenta made at possible t sa e life. As the head a lyanced the en is of the vessels becam comries ed as ha alr adv t in lescribed by S lih im

Valumentous insettion is frequent) of excel in sustan-according to Boshme ten times more frequently than in cases of single burths. In the thirty, two cases reported there were even par so it sims. In one Franq 6 s op more the limitation of space in cases of twins must be looked upon as an important cause. It was possible to save the children come of the barnets of the case so which the artertion of the barnets of the case so were injured with children died. In see on cases in which the arterwas injuried as children died and in four in which an a ten and I can were injured three children died in the remaining cases the rec of I which are in

complete seven child en died According to Hi rith et are more apt to be injured than the arternet because the reach the placents by a round bout route Of implication of rupture is the distance of the site of the (expression in the midical conditions the bird roth the first of the file and a According to the Mink I the

average is 6 cm

The diagnosis of lim at 3 sert a cabe made oil which am t sa at a life utenne os is flated so that mainter and fel the sapravia as a rootely politically the control of the sapravia as a rootely politic robbs the control of the sapravia as a rootely from the fact of the sapravia as a rootely from the fact of the sapravia as a rootely from the fact of the sapravia as a rootely from the fact of the sapravia

velamentous insertion (Benckisser Hurter Hecker Preiser) The diagnosi is generally first mai hen Hood appears with the liquor amni and the bleet ing continues throughout the Jeliven

In the differential diagnosis there also the reports of two care of very diagnosis cause the reports of two care of very diagnosis causes are varies of the unitary plasposing causes are varies of the unblata) or These are spanile shape! See I be called an in which are evilently caused 1 kinking flowing torsion of the vessels. Varies seconlary res II then is thin ing of the walls. In the I terrature the reight care of rupture I a values I ome to register as of rupture I a values I ome to register as so rupture I a values I ome to register as so rupture I a values I ome to respect to the contract of the values I ome to respect to the contract of the values I ome to respect to the contract of the values I ome to respect to the contract of the values I ome to respect to the values I ome to respect to the values I ome to respect to the values I of the val

cen in the author's clin c

Three groups are to be lifer nature!

I Tango of the vessel well and harm toma to Wharton spells. These are fuel to one gest sear it by an increase in the air six h ! pressure is the umbilical vessels resulting from the expulse slid to umbilical vessels resulting from the expulse slid to umbilical vessels resulting from the expulse slid to umbiling the pain and from kinking. The harm tomar is written the ze of a goos egg (flu bl. known r. Ritter Diener). It may deturb the circulate in of his in all thereby injure the chill flower the chill ded in only one of the four cases rere rited.

a cut mony one on the rout cases reported

2. If the hematoma is of ear jurial in e. th
ammatic sheath is ruptured (flu kal so. West
july in the cases. Delunsch). In on Winkels
cases hamorth ge d d not begin until after the
it was the case if we in titute the
greatest diagner to the thil (D lunsch).

3 Tearing of the walls of the ves is and the sheath of the aminon without the production of a harmatoma. To this group belong the cases of served in the clinic in these howe or the cases of served in the clinic in these howe or the cases of served in the clinic in these howe or the cases of served in the clinic in the case of served in the case with the case of th

co d by the biales of the forceps)
Wolt redyn't reports a case of hemat ma of the
umbal c loor l which he traced to listroph of the
ves i walls lue to the circulation of bide prement of
the big I. Then thild of of one real let us on the

thridd Lessons (the ves of are caused also t = t and Lessons of the ves of are caused also t = t and lessons in the real (loss of a real and a shapes in the real (loss of a real and a shapes). In the cases reported from unsunding the cool and the reputer s = t of a summer of a real and a shapes of a real and a shapes of a real and a shapes of a real and

Occa malls freed the movelates muse marked less fith wife the blood pressur i gratter seel to the nifit.

Compress in I should assess the trial property to the property of the property

hing Kautsky observed a case in which a jet of blood shot from the unablical cord after the birth of the child As no direct cause could be found to the child as no direct cause could be found to the control of the child shortness (§3 cm.) The author however careful the explanation of kermanner who observed a similar ca e. As the breaking of the amount of the control of the contr

LEIXL (G)

PUERPERIUM AND ITS COMPLICATIONS

Hobbs R The Causes of Acute Infections of the Uterus Including Puerperal Sepsis and Septic Miscartages and Th ir Treatment by Drain age P Ry Sc V d Lo d 9 4 ct Ob 1 & Gynz 3

The author call attention to the following facts

in acute infections of the uterus

1 The temperature often fall after e acuation

of the bowel

When the lochia are partially suppressed the temperature n es when they are re established the

temperature falls

3 Patients placed in a semi For ler position af
ter delivery are less inclined to experience a rise in

temperature than those in the recumbent position
4 The temperature oft n fall after an inta

utenne irrigation
5 Foul lochia if profu e are oft n unaccom pamed by a rise in the temperature an increase in

the pulse rate or other s gns of septic absorption such as headache flu hing etc

6 The withdrawal or escape of pus f om the

utenne cavity low is the tempe ature

After the stitches a eremo d from an ordern
at us perineum an escape of pus often occurs and is

f ll wed by a fall in the temperature

8 The remo al of p eces of placenta or membrane
f om the cerucal canal is foll used by a fall in the

I om the cervical canal is foll wed b a fall n th temperature 9 The retent on of septic p odu ts in th uterus

does not cause a n e 1 the temp r ture unles d amage is imperfect

to The uterus may contain a septic fetus with our associated fever but when labo p ins begin and the fetus is passing through the cervical canal the temperature less It fall agin after the

uterus has expelled its c nt nts

17 If a septic uterus s c etted o s bb d out
with a strong ant s pt c symptom of septic absorption sometimes foll .

12 If uterine ham rrhag dammed back b

13 In a case of sept c endometrit's the tempe a ture will ofte in e a degree or more just before a menstrual period and fulf ft r m instruction has been established

From these ob ervations it seems reasonable to assume that a damming back or stast is produced (1) in the utenne wall (2) in the cervical canal (3) by a loaded rectum (a) by swelling of the permeum or (5) by the position of the uterus as affected by the position of the patient. The operation of the first factor a probably precluded by the lymph flo through the uterine wall. Cervical stasis causes symptoms and signs of obstruction such as fever an increase in the pulse rate pain rednes and si elling of the mucous membrane and narroving and tortu osity of the canal The c nal may contain placenta blood clots mucous or polyp The uterus becomes tender enlarged and boggy it may be displaced and may contain pus. The factor of a loaded rectum a thou ht to operate not by absorption per se but by causing p essure on the cervix. That a s ollen perineum may caus obstruction i ey dent. The value of the Fowler position in promot ing dr inage has been well proved

Thereto e for cases of purperal sepsis septem is Thereto e for cases of purperal sepsis septem is a dopped a uniform tereatment to secure redequate dramage through the ervert cannot be redequate dramage through the ervert cannot be redequated of the redequated of the redequated of the redequated of the redequated of the redequated of the rectum is the nemptred and any presenting purces of membrane or its we are removed from the canal. The uterus having been feel from residual national redequated of the redequat

This treatment can be repeated as often as noc es ary. Glycerine causes a profuse outpouring of himph. The catheter should always be smaller than the cervical canal in order that drainage may oc

cu along its side

The treatment described has been given during a period of four years in several hundred cases. The results have been uniformly good with disappearance of the subjective symptoms and of the evidence of infection. The author concludes

5 ch treatment lessens the degree of inflam mation

2 It c n be repeated many times without dan

3 One treatment is ne er suff cient
4 It should always be employed afte ou ttage

5 In a large number of cases pel ac pain due to nflammation is of uterine rather than tubal origin 6 E tension of inflammati in from the uterus to

 E tension of inflammati n from the uterus to the adner is an indication for the treatment de scribed
 Unles the ext a uter ne les ons are of the

grossest type no operative interference is and cated until the treatment described has been tried 8 Exacerbations of salpingitis are less frequent following this treatment

9 Menstrual pan ceases and the flo tends to



GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Bowers C. A and Trattner II R Repeated Vene section Blood Transfusion in Anur a Report of a Case of Acute Veph itis with Anuria S g G nec & Obst 1924 220

The authors report a ca e in which in addit it to decapsulation of the right is there of which did not produce any immediate beneficial eff. of soc control of the produce any immediate beneficial eff. of soc control of the produce and them immediately transfer of with ann equal ident amount of bood from a health donor. The rittens and them interested the frequency of this procedure can be defined to did not be blood chemistry in the amount of urine exercted in twenty four hours Four tenescent to transfer of the second of the procedure of the smooth of units of the produce of the procedure of the smooth of units of the procedure of the smooth of units of the procedure of the pro

Samples of blood tales now have been all of cold a decrease of 55 mgm of wrea and 1 mgm of catnine for 100 cm set of 55 mgm of wrea and 1 mgm of catnine for 100 cm or
The excretion of urine 145 c cm in the first 1 cnty four hour period fite the first enesect on transfu on 100 c cm after the econd 150 c cm after the third and 350 c cm after the four th

In the case under bserv to the highest blood retinine content was 143 mgm per 100 cm lh p tient is still hving se en mo the after the tre tment but has a res du i chr nic nephritis

It stems ob nous ac ording t the uthors that any benefits resulting f om one or two enesect ons would be very transition and would be overshad wed by the inc ea i g a zem a which is usually prent

Th following c nclusion are drawn

I Repeated \(n \) ne ection \(t \) ans \(u \) on is logical Procedure in acute condition in interfering \(w \) th the permeability of the \(k \) n \(v \) in that it lowers the amount of accumulated catabolic poducts in the Good not only by the figure from your body to by repeated \(d \) tin \(f \) th emaining circulating blood

2 It is a more logical pr edure than a single censection transfusion since it is in onceivable that the tissues ould be deto ified for sufficient length of time to admit of much benefit

3 It t des the patient ov a crit cal period unt l the kidneys can g n esume their funct on 4 It can be used as an necessory measure but shoul I not supplant renal decapsulation which 1 a re ognized beneficial procedure in nephriti

The frequency and number of enescetion transfusions given in any case should depend upon the patient general ondition the blood chemistry and the quantity of urine excreted in twenty four hours

6 In the case reported the venesection transful in a sprobably an important factor in the rocers of the patient since there as no tension that could be relieved by decapsulation and no durret effect was obtain a following the operation Lotts Gross M.D.

BLADDER URETHRA AND PENIS

Graves R C and Davidoff L M Studies on the Ureter and Bi dder with Especial Reference to Regurgitation of the Vesical Contents J L of 9 4 x 93

In a previous report the authors established the fat that regurgatation of the bladder contents in the ureters may occur under certain conditions. This article eports further work on the ubject which gan demonstrates that a factor es ential for reflux in the ureters is sustained active tomus of the bladder in scle. Con equently agents which increase the blad let rome may produce regurgatation.

It was found that ord nary chemical agent—such a bonic acid potassium permanganate and argy rol in the strengths in which they are commonly used in the bladder are neutral in relation to vesical tone and reflux—while mercurochrome z o and s live mutrate especially in the more concentrated solution.

are irritating and stimulate contractions

Changes in the hidrogen on concentration and hip of the solutions are without effect while hyper tome solutions are without effect while hyper tome solutions such as zp per cent soci un bromned depe set the vescal tone and injure the tissues. When they are introduced into the bladder store with the concentration of the con

O Conor \ J Pr mary Carcinoma of the Fem le U ethra R port of a Case Treated by Dia thermy J U of 1924 xt 150

Only musty mine apparently authentic cases of primary carcinoma of the female urethra have been reported. In his re-rew of the literature the author rej cted about fifty cases because the lesson appeared to belong to the group of vull ovaginal tumors.

Primary carcinoma of the female urethra de velop most frequently in the mucosa of the urethra



SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Ely L W Bone Growth in Transplanted Bone An Esperimental Study A ch S g Q 4 1

When a piece of bone is removed from an animal b) an aseptic operation and is immediately buried in the tis ues of the animal new bone formation occurs in it. All authoritie agree on this point Whether the transplanted bone des and simply by its presence stimulates the surrounding tissue to form new bone or whether it survives and itself form new bone is still to be determined

Two main d fheulties in deciding this point ar that it is not all ays possible to distinguish dead bone from living bone and that we are uncertain of our identification of the osteoblast as well as of its

OHICE

The author reports a number of experiments on tats in which a piece of the lateral condule of th femur was placed in the thigh muscles a ious periods of time the bone was removed hard stained and examined. In e ry case the bone and its contained marro v had died The author is con unced that bone formation in such ca es takes place through vascular zation

ROBER V PENSTEN M D

Ito L k The Nutr tion of Articular Cartilage and Its Method of Repair B 1 J S 8 924

In a series of experiment on rats and rabbits. Ito removed a portion of the entire articular cartilage and left it loose in the 1 nt a ity For omparison in some cases a piece of bo e vas taken from the tal of the same animal and ubstituted for th detached artilage It was found that in p actically et ty instance the loose body g med a definite attachme it to the synov al membr ne The author tcheves that in the on cas n which it w s found wandering free in the 1 nt cavity but had ctained its acti ity it was nour; hed by synoyid fluid wheth et it previously had a syn vial att ichment or not

Th oughout the exp riments the loo reta ned vital ty and many of them pr liferated The bone cells hos eve became mactive and die i After four weeks newly formed bone tissue appeared around the d ad bone in the loo e bodies

The ref a r took plac first by filling of the defect with fibrou t sue which later became fibrocart laginous. The length of this process as between the and twelve weeks. In some pecimens to appea ed that the r pr att t su came f om the cancellous portion an i 1 others f m the syno ial m mbrane R RT V Fus N M D

Phemister D B Changes in the Articular Sur faces in Tube culous and in Pyogenic Infections of Joints 4m J Rontger I to 4 x 1

In mild cas of acute progenic arthriti the artic ular cartilage may not b involved but in the more severe case there is an early extensive destruction of the cartilage at the points of contact and pressure of oppoing artiular surfaces Destruction due partly to the crossve action of oppo ing articular surfaces upon each other and partly to the digestive action of proteolyt c fc ments in the exidate occurs herever cartuage is dead. The bone adjacent to the articular surfa e s usually destroyed only when infe t on is primary in the bone and results in necro is and sequestration. Diseased cartilige heals by granulation to us which a eventually formed in to fibrocartilage favoring a fibrous ankylo is When the entire thickn so of cartil ge is destroyed bony

ankylosis results eventually

The inflammatory proce s in tuberculous arthritis originates in the bone or synovial lining. The artic ul r cartilage i involved secondarily by the action of tube culou granulations grot ing in d rect contact with it. The cartilage is attacked along its free sur face and about its margin there it i unoppo ed by its articular cartilage. This portion is involved in the later stage of the d sease when the granulations are found along the free surfaces of the 10 nt and 1n the auth or mon tend to ab orb and separate the necrotic portion of the joint without the aid of tube cle bacilli Destruction of cartilage is always bilateral and I land of detached cartilage may re main free in the joint for mouths. After exten ive destruction of the joints the process may invade the adjacent ends of the bones producing more or less xtensive areas of necrosis When the occluding surfaces of a joint are involved kissing sequestra ar formed The author ha seen seven cases of this phenomenon Occasionally bony proliferation may be fo nd along the periosteal surfaces of an infected 10 nt After anky losis of a joint h aling occurs The ankylo is may be fibrous or bon depending upon

th extent of the de truction of the joint cartilage In pyogenic arthritis the roentgenogram sho s hrst a slight ha iness and di tortion of the shadows Ab orption then occurs along the joint surfaces with regional atrophy Narro 1 g of the joint space in dicit's ab ofption of cartilage. When bone is ab sorbed in addition the space is obliterated. In the more severe cases the sequestrat on occurs rapidly Bony ankylo is a demonstrated by bone trabeculæ briging the joint space Fibrous ankylosis shows a narrowed and uneven cartilage space often v th marginal lipping

The first \ ray evidence of tub reulous arth its s educed den its of the bony shadow after a few

480



With regard to the lumbosacral articulation the author states that normally there is an angle of 45 degrees between the fifth lumbar and the first acral segments and that the normal angle of articulation between the inferior articular processe of the fifth lumbar and superior articular processes of the first sacral is such that there cannot be any relaxation in these joints. However any variation in the ingl either undateral or bilateral ren lers the lumbo s.cral joint susceptible to rotation or spondyloh thesis Magnu on therefore urges careful examina ton of roentgenograms of the lumbo aeral articula tions with special attention to the angle formed by the fifth lumbar segment and the sacrum

Wilhs has shown that there are seven general types of defects of the fifth lumbar vertebra and occasionally of the first and second sacral vertebræ lacomplete closure of the neural arch which is found in a large number of ca es is characterized by a marked reduction of the bony attachments n thi region which favors overstraining of the remaining ligaments Incomplete eparation of the lamina at its base from the body of either or both side and incomplete closure and complete separation of the arucular processes of the fifth lumbar from the body are other anomalous conditions which re der thi joint susceptible to weakness and pain Unles the reentgenogram is taken at an angle that ill demon trate the apertures the defects are entirely over looked or may be regarded as fractures Such ana tomical defects should be looked fo in every case and method should be devi ed fo th ir detection

In examinations of a numb r of lumbosacral artic plations such a wide variation in the lateral process is found that it i impossible to determine which type is normal Back pain m y be attributed to a sacralized lateral process only when the process im pinges upon the ilium and this articulation becomes inflamed or traumatized. In five cases portions of the fifth lateral process were remo ed because t was that and wide and imp nged upon the lumbos acral Complete reco ery esulted n every case

Magnuson attributes sciatic pain to a traumatic inflammation of the ligaments at the time of injury which results in svelling t ansmitted from the lum bo acral and sacro-shac ligaments to the nerves which run through them and le immediately over them to the upper part of the sacro-iliac joint. His conclusions a e based upon the e amination of more

than 2 000 cases of sc atic pain following back strain This pain dis ppears only when treat ment is directed to the 1 flammation of the liga ments of the lumbos eral and sacro-ili e joints

RUDOLPH S REICH M D

SURGERY OF THE BONES JOINTS

MUSCLES TENDONS ETC

Henry A K ry A K Exposure of the Humerus and Femoral Shaft B i J S g 9 4 zu 84

The author goes thoroughly into the anatomy of the arm nd th gh in his description of the complete exposure of these regions for extensi e operations such as bone grafting and resection. The skin incision to expose the shaft of the humerus follows the cephalic vein from the coracoid tip to the bend of the elbo ; and is continued into the forearm in the midline of its upper third. The humerus is r ached by denning the outer bord r of the bicens hydring the deep fascia and cutting down upon the bone along the deltoid border and then di iding the expo ed outer fourth of the brach alis muscle Lu chla s filament to the brachiali is thus avoided and the mu cle fibers are split longitudinally. The musculo piral may be located one fingerbreadth di tal to the deltoid insertion

An incision may be carried through the brachi all to within two fingerbreadths of the level of the encondules without entering the elbow joint

The shoulder joint may be reached by dividing the fascia and periosteum on the upper surface of the outer third of the clavicle. The bone edge i detached with a chisel where the deltoid arises The deltoid may then be hinged outward. The elbow is reached through the brachialis

The line of incision for expo ing the femur is from the antero uperior spine to the outer angle of the patella The interval between the rectus femoris and vastus atternus a located and these muscles are separated with the fingers. Thus the cruraeu and on its surface the external circumflex vessels are exposed These are mobilized and retracted An incision through the upper portion of the cruraris often d vides a large vein. When the cruraus i separated from the bone and drawn apart more than a foot of the femoral shaft-from the lower epiphys to the lesser trochanter-is exposed

ROBERT I FUNSIES MID

Sullivan R F Spine Fusion in the Treatment of Vertebral Tuberculosis B ston M & S J 19 4

Stats ties from two eastern hospitals show that cases of vertebral tuberculos a const tute from 30 to 48 per cent of all cases of joint tuberculo is and bout 33 p r cent of all cases of bone tuberculosis

The disadvantages of the non-operative or recum bent treatment that was used exclusively previous to the wo k of Hibbs and Albee in 1011 were that from one to three years were necessary to bring about the fusion it was difficult to maintain constant recumbency the patient suffered from men tal dep ession and it was impossible to determine when (fever) the disease was cured

The two operative measures considered by Sullivan are the spinal fus on of Hibbs and the tibial bone graft of Albee The former is preferable for the follor ing reasons

1 It requi es only one incision

2 It does not necessitate the use of special el etrical equipment 3 It obtains fusion of the vertebræ at five

points whereas Albee's method fuses at only one point



The nest) modeled articular surfaces are covered with a free transpirat of fascal lates with the outer surface placed against the bone. The smooth tunce scaface then server as the 3-provail membrane. It should be 8 or 10 to long and 4 or 5 in wale. It should not be atternor surface of the firms about the state of th

of the tibia

The joint is closed completely fa cia being transplanted to bridge defects in the capsule if necessary
the quadriceps tendon is lengthesed about 2 in
Indow e the joint is kept at an angle of s o degrees

to insure flexion

If the ankylosis is in flexion the quadriceps need not be cut as it is redundant and can be retracted to the inner side

For ankylosis of the patella alone a broad fold fom the vastus externus; carried th ough bet seen the patella and femur after slicing off of the under urface of the patella and the fold is stitched to the vastus internus with the deep surface next to the me fild.

If the patella 1 freely movable the U h pel in G ion is reversed and carried across the patella ten con which is lengthened by a Z shaped incision

The amount of bone temoved dep nd on the potton of the knee From 1 to 1 in must be senfected as a rule. Shorte ing n t a disadé in blee unless it in me than e se a stiff tont in an improved position 1 ad isable. Install joint in an improved position 1 ad isable. Install joint in an improved position 1 ad isable. Install joint of the control of the control to the c

such may be secured

Mer operation the I g as placed in a Thomas

splant with a joint at the sur- and a bill floop ante

from over the joint. A tope is of send to the thoop

and carried to overthead puller and up to where the

patient can reach it to pull and be not been pas

wel. The legs | kept staght with moderate er

tree on until the local's a to nha subs ded usu lly

from eight to ten days. Extive motion begun at the

wold of this time the patients a ding hims ll' by

means of the rope

At the end of six eaks the splint removed and walking with crutches is begun weight bearing being increased grad ally. In esistant cas motion under gos-anxishesia may be nece sars but not mor than no degrees of if yon should be attempted at on time.

The period f total d ability is fr m t o to three months nd that of partial disability six month

This article 1 based on forty oper tions. Tw. I e are tepotted here the oth rs. er. de eribed in previous p. pers. Fr. m. the result the withor concludes that in selected cases arthropia 13 of the lines offers an excellent chance of objain ng satisfactors motion.

WILLY A CLARK M. D.

FRACTURES AND DISLOCATIONS

Hale k The Treatment of Fracture of the Ole cranon Proces by the Hay Hook Tracto

An instrum nt ship l lik 1 ii h hook 4 or 5 in in length as le 1 id bi the uithor to pull down the detached of ranon in the case of a patient who r fused open operation. The sharp end of the hook was tapped light! into the protunal end of the observation through a small skin jurision.

By traction on the hook of the arm extended

By traction on the noot. In the arm extended the fragment vas pulled nuto proper apposition to the shaif. A short wooden splint vas then strapped to the forsam is aduleste and the distal end of the hook anchored to this plant with a rubber time to maintain the truction. The hook vas held in position by a bin lage and the arm carried in a ling.

Good a ion with perf ct function was obtained

Spe d k Trai matic Les ons of the Head of the Rad v Rel tion to Elbow-Joint Dysfunction S g Cl \ 1 m 9 4 1 651

Uncomplicated fracture of the heal of the radius or cur in adults the of the head and peck mainly in children. The lo er limit of all these fracture, is the broight all tubers it) belo. I which is the true radial diag hiss. The radi I head articulates only with the ulia to which it is held by the annular ligament the motions of pronation and supmation occur at this joint. The upper surface of the radial head is smooth covered with showing and continuation with the libon, joint proper so that the rations of sufficient libon, joint proper so that it restors of superior that all of it was and extraption of the forearm.

U illy when injured the head of the radius is compressed as a hole and so deformed that smooth rotators motion against the ulna is mechanically impos ble If the fr ctur is communited a bone fragment may enter the joint prop r hamarthrosis occurs absorption is sl w new bone may proliferat capsular chang s appear and any one of the three main nerves at the elbon may be involved. If im proper t eatment 1 gi en great di ab lity follor s Soon after the injury there may be two thirds of n rmal fle ion and extens on m y be po s ble but pronation and suping on are p inful and there is a point of extreme tenderne s over the he d. If the fracture is complete or pitts may be felt but the lesion s usually partial or marg nal. It is this typ of lesion which i most frequently o erlooked Farh rest and immob lizati n may result in nearly full setu n of fun t on if the heaf is not de o med uff ciently to interf re v th rotation

The he d 1 often in olicid in neck fr ctures which if an om-lete or of the gre natick typ tend to h 1 rapidly with minimal d function suprination being chiefls aff ctell. If it fr cture is complete a d without d placem in tun or usually



SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

locke C. E. Jr. Intracranial Arteriosenous ineurism or Pulsating Exophthalmos 1 1 10 4 lxxx 1

fatte literature 598 cases of intracramal arterio recous aneurism have been reported. To late the its it of treatment ha e been unsatisfactors. The and ton was first lescribed by Travers in 1809 the author reviews its hi tory

Of the entire's ries of 558 case r ports found in the literature in only 544 ca es is the etiol go

In 112 ca es the aneurism as of spontaneou or an and in 418 of traumatic origin. The pon tan ous type of ancura m occurred more frequently in females (74 13 per cent) than in males and the traumat c type more frequently in mal s (6 6 per cent) than in females

The average age of the persons 1th pontaneou euri m was near the end of the hitt decade wi ile that of the subjects of traumatic ancurs m was near the end of the third lecade \ bil t ral exopl that eres is found more frequently in cases of traumatic

ancurism than in c ses of spont neous ancurism total of fifty postmortem examinations have been recorded Of this number thirty three were perlo med upon cases of pontaneous neurasm and seventeen upon cas s of the t um t c type On th basis of the sc nt informat on at h nd t may b stated that practically all cas s of the traumati The of pulsating exophth imos ar due to an all cranial arteriorenous co amuni ation while of the e of the spontan ous typ or ly a few mor than half can be attr buted to the au one fou th be ng de to tumor and the reman ng fourth to smpl aneur sm of e ther th int mal ca ot i or the ophtl Im artery

Rawlings h s f und th t Rawlings h s f und th t pr cent of th the sphene i bone i both the it ternal rotal ar tery and th cavernous shus are comparati el trimovable in this region an und rlying frictu may rupture or injure their diacent wall cases I actual r pture are th se in hich the p tent he rs the bruit mm diat ly upon th feturn of c usne s Whe th bruit i not head until se er) days or w ca after the accident the v ascl walls ner only d mag dat fi st and ruptur di ter In sorte c s s a p n trat rg ound may come in ont t intracran ally with both the internal rot i rt ry a d the c vernous s nus nd may rup t re or weaken the adjoing walls of thise two

The nechanism of p oduction of a pul ating exophthalmos spontaneously without an injury is

mor diff ult to explain. The condition may be due to a li east landy akened condition of the wall of th adjoining v ssel Again at seems probable that n arteriovenous communication may occur from th rupture of a simple ancur sm in the portion of the internal caroti I which li vithin the cavernous sinus or in its imme lat n i bborhood. The spontaneou type of julating a Ththalmo may of course be duc also t a simple aneuri m of the internal carotid or phthalmic art ry or e en a tumor of the orbit The variou ranged perves may be involved

The author reports to as s of rulsating exoph thalmo foll n ng traum In one case marked imi ro m nt i il I light a not the internal carot il th ugh igt i ump 101 of the ves is ga e n rhi Inth or I care in addition to ligation of the nt rn 1 rott 1 ligation of the superior orbithalmic vein vi done with a very sati factory outcome In the third ca hich followed trauma a ure as obtain d The treatment consisted of rest mort hine and digital compres on

The author talulate the results of treatment as

Ca es treated by ligation of the com non carot I 214 report d ured 154 mortality 8 o per cent (a es tr t d by light on of the internal carotid thirty eight reported cured eight mortality prent (asis treated by bilateral I gation of the r tals t ent one reported cure I thirteen mor talit 1; S f er c nt Cases treated by d gital com pression of reported cured twenty no mortal ty Ca 5 treate I by hgat on of the orbital yeins lo e nn te n reported cure! eight mortality 5 26 p r c nt Cases treated by I gation of the carotil and orbital veins twenty four reported cured nine mortality 16 67 per cent. Cases treat d by rest and medication to enty et ht reported cured fou mortality 3 57 per cent. The cases tre ted by g latine injection were sixteen reported ured f e no deaths recorded

STA LEY J SPECER M D

Go don A II and Bourne C R Suppurative Pylephlebitis with Pn umococcus Septicaemia 31 d Cl 1 \ 1m 9 4 TOTE

Th authors report the case of a girl of 9 years who gave a hi tory of measles of pneumonia at a and aga n at 5 follor ed by pleurisy th effusion of whooping cough at 7 and of inguinal adentis which d charged for a long time on two occasions The patt at was never well and suff ed from re peated colds and bronchitis

Six months before h r final illness she had a sharp att ch of pain n the lower abdomen which lasted fo a few hours but was not accomp med by somet ing or fever After that she was in remarkably good

occurs in from fifteen to twenty days with good joint motion. If there is displacement 1 in tation of motion and possibly cubitin valeus may result

Fractures of the diaphysis of the ulna complicated by dislocation of the head of the radius are seen in adolescents. This complication may be present in as high as 80 per cent of the fractures of the upper part of the ulna and is often overlooked until later ference with joint motion becomes apparent. In such cases the prognosis for complete function is

good only if early reduction of the head is done Subhuzation of the head of the radius or pulled elbow occurs in infants fearing to walk. It is caused by jerks on the hyperetinded arm fee ultimg in forward displacement of the head. It can be reduced by pressure on the head. Reduction should be followed by splitting of the arm in acute flexion. If the fuzzation is not reduced the carrying.

angle remains permanently changed although all

cases accept fissure fractures without displacement Only resection promases the return of the power of pronation and supnation. If evostoses are formed or there is pain restriction of motion or some other complication it may be done years after the injury in the cases of infants and children resection is usually contra indicated because of the da ger of growth disturbance following pripplyscal injury or removal. If it is necessary because of analysis or considerable bone formation a modified arising plasty by means of transplanted fiscus should be done.

Children Corv M D.

In the cases of adults the treatment of these

injuries of the radius is resection of the head in all

Martin E D Fracture of th Neck of the Fernur S uth M J 19 4 v1 613

Union of a fracture of the neck of the femur will occur if the patients a condition permits obtogenesis and if apposition and immobilization of the fargments are obtained. The purpose of the author's method is to accomplish this result without the least dominant of the patient is without the use of a body cast. The technique described is briefly as

An incision about 6 in long is made over the greater trochanter and the tissues are dissected away so that the head and neck can be located While an assistant makes traction on the leg with the foot inverted the direction of the head from the trochanter is gauged a hole is drilled th ough the femur to the fracture line and a screw is inserted into the head By t ghtening the screw the head and trochanter are brought into apposition An X ray examination is then made and if the screw is not in the correct position it is remo ed and reinserted If the first screw is correctly placed a second is in serted above or below and parallel to it under control of the \ ray The second screw insures ammobilization of the head on the shaft. After the placing of the screws the limb is suspended on a Hodgen splint for from ten days to two weeks or until the wound has healed The patient is then kept in bed several weeks longer with no appuance on the leg

In t elve cases tr ated in this manner the results exceeded expectations. A most encouraging feature was the relief due to the early mobilization of the joints of the leg.

CERSTER C Goy M.D.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Locke C E Jr Intracranial Arteriovenous

Aneurism or Pulsating Exophthalmos A

S g 1924 l x 1

In the literature 385 ca es of intracranial atterio venous aneurism have been reported. To date the results of treatment have been unsatisfactory. The condition was first described by Fravers in 1809, the author reviews its history.

Of the entire series of 588 case report found in the hterature in only 544 cases is the etiology

In 112 cases the aneuri m was of spontaneous origin and in 418 of traumatic origin. The pontaneous tipe of aneurism occurred more frequently in finales (74 13 per cent) than in males and the traumatic type more frequently in males (76,6) per cent) than in females.

The average age of the person with pontaineous aneu ism was near the end of the hith decade while that of the subjects of traumat c aneurism was near the end of the third decade. A bil teral exophthal more is found more f equently n cases of traumatic aneurism than in cases of spontaneous aneuri m.

and the state of the special policy and the state of the special policy and the special pol

Rawlings has found that o per cent of the fractures of the base of the kull myolve the body of the phenoid bone. As both the internal carotid ar t ry and the ca ernous sinus are comparatively immovable in this gion an underlying fracture may rupture or injure th ir discent walls. The cases of actual rupture are those in which the patie t hears the bru t imm diately upon the return of cons journe s When the bru t is not heard until se eral days or weeks iter the a c dent the vessel wall w re only damaged at first and ruptured later In some cases a pen trati g ound may come in ith both the internal contact int acrani lly carot d terv and th c ernou inu and may rup tur or weaken the adjoining valls of these two

The mechanism of product on of a pulsating e ophthalmos spontaneously without an injury is

more difficult to explain. The condition may be due to a diseased and weakened condition of the walls of the adjoining vessel. Again it seems probable that an arteno enous communication may occur from the rupture of a simple aneutrs in in the portion of the internal carotic which he had been so in its immediate he, shorthood. The spontaneous wree for plaisting exophitalizous may of course be due or the shorthood and the shorthood arten, or even a tumor of the orbit. The var ous cranal farters wan be modeled.

The author reports the cases of pul ating exoph the author reports the cases of pul ating exoph the author to the case of the case marked improvation to the distribution of the internal and though distribution of the case of part or their In the s cont (ca in addition to I gation of the internal carotal ligation of the superior ophthalmic vian was done with a very satisfactory outcome. In the third case which followed trainm a cure was obtained. The treatment consisted of ret immorphism and diet al compression.

The author tabulates the re ults of treatment as follows

Cases treated by hgation of the common carotid 34 reported cured 154 mortality 8 g per cent Cases treated by light on of the internal carotid thirty eight reported cured eight mortality 70 per cent Ca es treated by bilateral ligation of the carotids twenty-one reported cured thirteen mortality 14 28 per cent Cases treated by digital com press on 100 reported cured t enty no mortal ity Cases treated by ligation of the orbital veins alone nineteen r ported cured eight mortality 5 6 per cent Cases treated by ligation of the carotid and orbital veins twenty four reported cured nine mortality 16 67 per cent Cases treat ed by rest and medication to enty eight reported cuted four mortality 3 57 per cent. The cases t cated by gelatine injection were sixteen repo ted cured fi e no deaths recorded

STALES J SEEGER M D

Gordon A II and Bourne C R Suppurative Pylephlebitis with Pneumococcus Septicaemia JI d Cl V Am 9 4 9 3

The authors report the case of a gul of 9 year who gave a history of measles of pneumonia 43 and aga a at 5 followed by pleurisv 1 th effusion of whooping cough at 7 and of inguinal adentits hich discharged for a long, time on two occasions. The patient was never well and suffer d from repated cold and bronchits

Six months before her final illness she had a sharp attack of pain in the lower abdomen which lasted it a few hours but was not accompaned by vonut ing or fever. After that she was in remarkably good health for some time. Her last illness began sud denly ith chills paroxysmal abdominal pinn an irregular high temjerature a rapid pule rate marked nausea and vomiting variable tenderness and resistan e often in the upper npit quadrant of the abdomen marked priori ation and emication and funccytosis. Y bio 1 culture will positive for preumococcus 37 pp. 2. The diagnosis is a pneumo

On rectal examination a small firm mass va sfet at the tip of the examin ng finger to the night. Ab lominal exploration r vealed no evi lence of tub r culo is nor peritionitis. At a point where the omentum va stadherent to the creum va sin ache the size of a cent piece with what which was defined in in definitions. The appendix showed some chronic infilmination is the appendix showed some chronic infilmination. Only the various several large soft Only to yet only the yet of the size of the siz

gants w 1 journ

1 few days after the operation the wound broke
lown discharging a f ul smelling greenish vellow
pus Later a discharging right oftit me ha d vel
optid which shoved Gram positive cocci in groups
and lanceolate Gram positive diplococci. Death
occurred six weeks after th one tof the condition

Among other findings at autops were pus in the pouch of Dougles and in pockets at the end points of the sup nor mesenteric artery mans occurs along the other artery mans occurs along the other artery mans occurs along the other artery are along the other artery are along the other artery are along the other artery are along the other artery are along the other artery are along the are along the artery are along the artery are along the artery are along the artery are along the artery are along the artery are

The heart's blood g ve a pure culture of pneumo coccus Type II The ulcer of the execum and the abscesses of the liver a d mesenters showed pneu mococcus and bacillus coli. The spleen sho ed pneumococcus

The presumable c urse of events 11 thus case via infection of the rad cles of the portal ven from the ulcer of the excum with upward extension of the infection and rawlant throughout the main trunk of the ven was reache! In addition there was rettograde c tension about other transfer of the properties of the results of the control of

The author reviews the literature on pylephlebitis with septicamia. The condition is practically always fatal. CLAYTON F N D > M D

BLOOD TRANSFUSION

Higgin S G and Fi ler D Effects of the Intra muscular Injection of Sodium Citrate upon Bleeding 1 S g 9 + 1 \tau 268

In 1916 Neuhof reported the following conclusions

The coagulation time of the blood is greatly shortened within a few minutes after the introduction of non-tonic doses of sodium citrate.

The bleed ng time is also shortened

3 Coincident with the shortene I coagulation time the color of the venous blood is altered to a light arterial tint. 4 There is no first touc or lethal dose of sodium

4 Incre is no n e i touc or lethal dose of sodium citrate per kilo of body weight the toucity depending to a remarkable degree upon the rate at which the sodium citrate solution 1 introduced

5 A tour or lethal dose is charact nized by a swing from the state of shortened coagulation to state of su pended coagulation. Thus latter phenom enon led to the sodium citrite metho I of blood transfusion and it is this effect which overshadowed the ordinary pharmacol gical action of odium citretering the properties.

Well in 1915 reported that he was able to short en the coagulation time by one h If by adminitering

5 gm of a 20 per cent solution

Neuhof an i II rischfel i reported a se ses of go cases in who has odum citrate was admin terd in the last 200 it was given by the intramiscular route. They concluded that such administration results in groupst and pronounced shortening of the coughli ton and liber lag time of i to of three hours duration followed by gridual return to the normal within from thenty four to fort reight hours. They established the optimum dose as 30 c cm of a 30 per c nt solution.

The authors report a series of fifty cases. With a 3 in needle 3 c.m. of a 1 per cent novocaine solution are injected into each buttook. Three mutes later 15 c.m. of a 30 per ce. t. chemically pure sodium citrate solution stenlized by boil ng are injected into each butt c.k. in the same area.

In the first twenty five cases the coagulatio time before citrate injection range! from fi e to eleven minutes. Wher the injection the shortest time ranged from one to two and on hilf minutes was noted from forty five to saty, after the injection. After saty minutes at gradu lly r turned to normal within from it ents four tof rts ight hours.

CARL D NEIDHOLD MID

Robert on S B Fisangularion Tran fu ion A New Th rapeutic Me sure in tle Treatme t of Severe Toirmia i ch S f 19 4 1

The technique of the operati n de cribed as

follows a puncture of the median basic ven of the donor or donors blood is a third was not one of the donor or donors blood is a third was not one of the donor o

pound of body weight. The desired amount having been withdrawn from the donor it is laid aside until required at a later stage of the operation its temperature being maintained during this time by a water bath at a temperature of 100 degrees F.

The recipient is then prepared The cannula for the transfusion is first tied into a suitable vein such as the internal suphenous at the ankle or the median basilic at the elbow and salt solution 1 slowly introduced to prevent clotting. The ex anguination cannula is then inserted. In small infants, the su perior longitudinal sinus is used for the examplina tion, but in children in whom the anterior fontanelle is closed the femoral vein provides a suitable substitute. The superficial ve ns are not sati factors a they cannot be relied upon to yield a rapid and continuous flow of blood When the femoral vein is used a large cannula is introduced into it through the saphenous vein which can readily be picked up just befo e it perforates the cribiform fascia. By intro ducing the cannula in this way the continuity of the femoral vein is not di turbed and the ri k of injuring the circulation of the limb 1 a oided Blood 1 then withdrawn from the patient until

signs of exanguination begin. The amount of blood ithdrawn at this stage aries greatly. In the cases of small child en the author ha found the quantity to range from 60 to 160 c cm With the first sign of realening of the pulse one of the roo c cm syrin es containing citrated blood from the donors 1 connected with the transfusion cannula and the intro duct on of fresh blood is begun. If it appears that the withdra val of blood has approached too close to the margin of safety from 5 to 10 minims (0 3 to 0 6 c cm) of a 1 1 000 et mephrin solution are administered by mean of a hypodermic needle thrust into the rubber tubing hich connects the tran fus on syringe 1th the cannula in the vein After the transfu ion has begun the ithdrawal and the introduction of bleod re carried on simultane

ously at approximately the same rate until all of the available blood has been transfused. As a rule more blood is introduced than was removed the extension of the same transfused by

total amount injected

The operation of ex anguination transfusion
has been performed mainly in the treatment of the
following conditions (1) the toxemia of severe
burns (2) ergs pelas (3) acute inte tinal intoruca
tion (4) re ordin poi oning (5) malignant scarlet
fever and (6) epticemia

The points brought out in the article are sum

I In cases of severe sup riscal burns in hich the symptoms indicate a probably fatal result exangumation translusion has reduced the mor tality from too to 50 per cent. Before the intro lise tion of this procedure the author had not seen cases of burn toxxmis reco er after the development f convul ons

In ery sipela of the newborn the mortality ha been reduced from nearly 100 to 50 per cent and in the cases of patients from 1 month to 12 months of age 1t has been reduced from 50 to 13 per cent

3 In acute septic scarlet fever the method seems to be of decided value in tid ng the patient over the period of intense toxemia as well as in converting the case into one of the ordinarily severe type

4. In acute intestinal intovication the adoption of exangumation transfusion ha reduced the mortality by 20 to 25 per cent. Th. includes all cases admitted in an apparently moribund condition.

5 In epitcamia the result are on the vhole omewhat disappointing. Uthough in some the response to treatment was most decaded in others the benefit seemed to be slight and only temporary.

MORRIS II LAHA M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hamilton T G Conservation in the Treatment of Hand Injurie C adia If Ass J 1924 686

Conservation in the treatment of hand injunes aims toward restoring the patient to activity with the least loss of its us function and time and with the feast economic loss. The treatment should be begun early in ord r that devitalization of tissue and infection may be minimal and the case should be studied from the beginning from the point of use of the methods which vil best conserve the time of the patient of the patient of the patient with the patient was a support of the patient when the patient was a support of the patient when the patient was a support of the patient was a support o

t No ti sue should be sacrificed unless it is necrotic of wholly detached from all i load supply

2 Stenlization is important and should be as thorough as po sible without destroying the vitality of the tissues
3 Sutures should be so placed that they will not

3 Sutures should be so place I that they a II not cause any unnecessary devitalization. If necess 13 they may be omitted entirely

4 Dramage shoul I be pro ide I in practically all cases

5 Fflictent splinting the presention of bandage pressure and elevation f the hand increase comfort and assist healing

6 Physiother py should be begun early and continued as lo g as function can be benefited by it 7 If ankylosi is unavoidable the position of greatest util ty hould be adopted

L M ZIMMERMA M D

McWilliams C A Principles of the Four Types of Skin Grafting with an Imprived Method of Treating Total Avulsion of the Scalp J Am 3f A 19 4 Luxu 183

The four types of skin grafts are (1) Thiersch grafts (Ollier an independent c -di covere) (2) Reverdins minute plugs of full thickness skin (3) free full thickne non pedicle I grafts and (4) pedicled flaps (not true gr fits)

Thiresch grafts nearly always take hen appli do fresh sterile operative wounds such as the wound of breast amputation. For sterilization of the granulating surface the vuthor employs Dakin s solution One of the most typ cal uses of the Thiresch a 'fit is the treatment of tot I avulsion! f the scalp McWilliams seldom employs Reverdin grafts

Meyilliams sealon employs Reverdin gratis
For success in the gailting of free il Il thickne's
non pedicled gafts the author ges fourteen rules
The use of the pel cled flap of skin with a considerable layer of attached fat 1 one of the most

dependable methods for the repair of it we lef cis. The author describes three general methods of using pedicled flaps and gives thirteen rules for the successful formation of single pedicled skin flaps. The article is summarized as follows:

As a first a seminate to thomosome treating total values on the scalp conests in immediate surgical cleansing of the raw area shaving and surgical cleansing of the raw area shaving and surgical cleansing of the sawleed scalp and drilling of the bate bone into the diploe at numerous points of the sawled scalp and drilling of the bate bone into the diploe at numerous points of the sawled scalp. The totally availed scalp should never be replaced as it will bot it e

2 Of all types of skin grifting autogenous The ersch grafts are the most successful and have the wilest applicability. Their disadvantage is their subsequent contriction. Isografts are usually unsuccess file.

3 Autogenous free full thickness non pedied d flip are some bit less succes ful but ell worth a tril proviled care it ken in selecting the case and car ful technique is used Fresh operative wounds with a mu cle base are most favorable. A fat base

1 mo t unfavorable. Contraction of the graft is light lut a d-advantage is the subsequent pig mentation. All ubcutances fat should be carefully trimmel from the graft with sessors. The traliant hull be punctue did numerous points ith Carrels punch and very firm even pressure (most important) hould be applied to the entire surface.

of the graft by the dressing

4 Ledeled flap are uniformly successful if the es no necross of the end of the flap. At a pre liminary operation the flap may be elevated and freed and then sewed back in place to determine the chances of necrosss before it is transplanted into its first position. These flaps should retain the sub-cutaneous fat upon them.

5 Eyebro's may be grafted most successfully by taking half the opposite ey brow and transplanting it with a pedicle. Slightly less successful are free full thickness slips taken from th. hair

scalp

6 It is very important to observe that in contra d iniction to free full thickness grafts it is with the firmest subsequent pressure is essential the presure on pedicled flaps should be only moderate otherwise necrosis will result from the obstruction to the blood supply by pressure on the pedicle of the flap.

7 The subsequent contraction that takes place in The ersch and keverd n grafts must be taken into account Because of this contract on such graft should not be used to cover raw areas a the neck axilla cubical fossa the elbow or populteal space In

these localities free full thickness skin grafts or pedicled flaps should be employed

8 It should be noted also that free full thickness grafts should have no subcutaneous fat on them since their blood supply is obtained from the raw base and fat is a poor conductor of the circulation but in pedicled flaps the subcutaneous fat should remain since their circulation is maintained through the pedicle and the fat forms a good cushion on which the skin can move freely

o The only way to cure an old roente n ray burn is to excise the raw area widely sterilize it and then cover it with a Thiersch graft Full thickness grafts whether pedicled or not do not take because the surrounding endarteritis causes a deficiency in

their blood supply

to Free full thickness grafts should not be cut larger than the area to be filled Therefore some stretching will be necessary when they are trans This is in contradistinction to pedicled flaps which should lie easily and should not be stretched Pedicled flaps must be cut one third larger than the area to be filled to allo v for shrink

11 Surgical textbooks are too indefinite regard ing the results of iso-skin grafts and the replacement of the totally avul ed scalp. The futility of each of these procedures cannot be too strongly emphasized Only the partially avulsed scalp with a pedicl

should be replaced

12 The transplantation of section of monkey or other animal glands (i e testes) is entirely ithout scientific basis and has been exploited for commer cial purposes only. This procedure is no less certain to fail than the tran plantation of iso skin grafts Both methods should be unhe-statingly condemne! by conscientious surgeons

FMI C ROBITS IFK M D

Surgery of the present day has slowly evolve? from the painstaking stud es of many generations of surgeons Surgery as practiced today may be regarded as an art developed since the introduction of anaesthesia and asepsis. The study of pathologic in living tissue has made possible deductions of great value in the treatment of surgical dises es The discoveries of med cine the increase in labor atory facilities and the de elopment of training schools for nurses ha e il h loed to advance the

It is gradually being re lized that operations may be more safely perf rmed in many instances by preliminary prepar ton of the patients and by dividing certain operati ns into st ges. When these points are more thoro ghl ppreciated there will be a further reduction in surgical mortality

The details of p e-operation of p eparation are given for the amous types of go ter requiring surgical treatment for diabetes mellitus gastri ulcer and carcinoma chronic jaundice ben gn and mal gnant conditions of the large intestine acute abdominal conditions such as acute ob truction and acute appendicitis acute pelvic conditions and disea es of the prostate. The advisability of combining radium treatment and surgers in certain instances and the status of anæsthesia as a factor in surgical mortality are discit sed

The point is particularly emphasized that sur geons should appreciate the importance of good judgment in the selection of patients for operation the proper preparation of such patients and the selection of an operation which may be performed without a fatal termination

Mills R G The Incidence of Postoperati c Catheterization in the Johns Hopkins Ho nital A & Sre 041 TX 8 3

The cases reviewed were treated on the surgical gynecological and urological services and include practically all the e operated upon bety cen June 1 1018 and February 15 1020

The operations are divided into fourteen groups and extensive record ar presented. The results

Catheterization vas therefore done after oper ation in 12 18 per cent of the cases report of cases from St Luke's Ho pital made nine years pre tously ga e the total percentage as 11 04 Women are more hable to blad ler d sturbances than men as is shown by the figures in Group 8 in which the operations and treatment were the same In this group 3 s per cent of the men and 23 s p s cent of the women required catheterization appears that nervous irritability and bladder diffi culties after operation are ery commonly associ ated

The percentage of white patients cathetenzed as 10 9 and of colored patients 12 1 The average capacity of the bladder is 400 c cm. The voided specimens are nearly all avs larger in amount than the cathetenzed pecimens. Pushing flui is before operation and the giving of water soon after oper ation are both helpful in preventing co stitis Bladder injury is more often due to trauma or external influ ences than to injury from the catheter An impor tant factor in the causation of cystitis is residual unne CLASTO F AND THE MED

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Garlock J II Infections of the Hand S & G G o c & Obst 1924 vxix 65

This article consists of an analysis of 460 hand injections of all types and a d scussion of the treat ment and end results. In ninety seven (20 4 per cent) of the cases the condition vas a simple abscess or cellulitis These conditions are usually diagnose l without difficulty. The abscesses vere treated by simple incision and the diffuse infections were treated conservatively with fomentations. The end results vere good. In twenty cases there were simple subcorthelial abscesses which cleared up s hen the detached epithelium as remo ed Forty two cases p escrited collar button absces es suben fermal accumulat as of our communicating through a narrow sinus with a deeper subde mal collection. The e at scesses differ from simple subon lermal ab cesses in that the surrou ding area of r due s and swelling is ider there is indurate a at the regt n of maximum t n lerness and the nationt complains of a sex re throbbing pain. The treat ment consists in e p ing the superficial pocket and inci ing the si us idely enough to drain the deeper pocket. In two cases in this grup leaves ed ten ler scars persiste !

Of forty cases of paronychia t enty on were incomplete an I sixteen complete. The former wer treated by existion of the corner and side of the nail base and the latter by remo al of the entire detached portion of the null Ridg I nail e ulted in three cases.

Carbunel s which m 1 yelop n m p part of the hanl contain ig hair follel so occured in thirty ight cases in the size. These differ from simple ab cesses in having multiple sames about a n crotice or and can ug m r marked an leasten is einduration. In the treatment crucial incisions are made extending beyon't l'imit of infiltration and flaps are el viated from the underlying time. In only two c es w re the e permanent function al cab lines which per entiel the full file on of a da blitters which per entiel the full file on of a

Felons or infections of the anterior closed space of the distall planta — c found in sixt two social to the distall planta — c found in sixt two sease in this g oup the intense throbbing prin is important in the diagnos. The distall plant in is at heat tense later it becomes indurated and tender and finally bogs fluctuant and insensit e. The rest of the fing r1 usually not involved. O teomyetius cocurred in one third of these cases In nin there was permanent 1 blirty in d in t o of these imputations was necessiry.

th cesses of the thenar and hypothenar eminences were relate tely unimportant being found in only 3 per cent of the cases. All resulted from a direct puncture wound inoculation and all were controlled by simple incision.

In the five chronic staphylo occic infections in the series the continuation was due to a local cause and healing occurred when the 1 cal cause was removed

Suppurative tenosynovitis is a cond tion of extreme importance demanding early d agnoss and prompt intelligent treatment. In the forty, two cases stud ed the original injury was so slight that it was overlooked by the patient. Severe throbbing put in felt in the entire finger and hand the finger is held rigidly semificated and motion is very painful fing its are swidtle intellectual to the finger in fing its are swidtle intellectual to the course of the tendon sheath especially over the course of the tendon sheath especially over the proximal end and extension of the finger causes intense pain which is most severe at the proximal end of the sheath. The amount of systemic react in end of the sheath. The amount of systemic react in

depends upon the nature of the infecting organism in the treatment of these cases an Esmarch brindage should be used to obtain a bloodless field for operation a general anasshet c should be administered and the patient should be kept in below the should be administered and the patient should be kept in below the should be should be administered and the patient should be should be administered and the patients of the should be administered to the should be administered to the patients are under the should be administered to the patients are under the should be administered to the patients are under the should be administered to the patients and the should be administered to the patients and the should be administered to the patients and the should be administered to the patients and the should be administered to the patients and the should be administered to the patients and the should be administered to the patients and the should be administered to the should be administered to the should be administered the should be administered to the s

was a some born the case extrassion of the energy of the case of t

There were lwel c cases of suppurative uban bursitis. In eight the condition was an extension of tenosynovitis of the little finger and in four as due to rid al bursitis. The diagnosis requires a knowledge of the pathology present before the extension occurred and proper evaluation of the findings. In three of these twee longer reduction of the findings. In three of these twee paints apare in New truptured proximally causing deep forcarm abcesses and in four it extended to the radial burst. In the tentiment adequate properly placed incision are e-ential. Drainage is not necessary after the first kearty four hours. In four of the cases there was impairment of the funct of the fine of the first cases and in several limitation of metian in the fibrers.

The ewere tences of radial bursits four resulting from tenosyn vitis of the thumb four from ulnar bursits and two from infected traumatic amputations of the thumb. In four of these the condition extended to the ulnar bursa, and in four

to the thenar space In four others it ruptured at the proumal end of the sheath. In none was there permanent impairment of wrist joint function but in four there was some loss of mobility in the thumb. Se enteen cases of thenar space infection were cured without pe manent impairment. In such cases an incision should be made over the fir t dorsal interesting the control of the section of the control of the co

Infections of the middle palmar pace ar frequently overlooked or incorrectly dangesed Loss of the concavity of the palm with only relative immobility of the fingers and industration and tender niss most marked over the anatomical position of the space are the diagnostic features. An adequate representative processing the control of th

rases usually complete

There were mine cases of deep forearm infection for due to extension from ulara burstits and four from radial burstits. These abscrsses develope between the fleori profundu and pronator quad ratus muscles and extend along the interosecous membrane and internue cular septia. As a rule the diagnosis is not difficult. I steral tice ross are the contraction of the nine cases.

Secondary osteomy elit 3 vas present in t entimic cases In twenty one t de eloped in the distalphalant as the result of a felon and in eight was secondary to trons no ritis. In four of the latter amputation was necessary. The diagno is a based on the hi tory the course the presence of suruses the V-ray findings. In the treatment constructions incuming a burshelp by the extensive involvement

demand amputation

The cases revie ed included all of o of extensor tondon sheath infection t of palarnt fascia infection and four of phlegmonous hamphangerits. Pour of these patients due to recovered with fair function and one recovered completely. The treatment consisted in multiple missions irrigations vith Dakin's solution blood transfusions and measures to maintain the field level of the bods.

I M ZIMMERMAN M D

ANJESTHESIA

Lundy J S The Comparative Value of Ethylene as an Anæsthetic J im W Ass 19 4 lxs 11 350

The author reports upon to series of cases in which ethylene as used for the induction of anasths ia-one from the Majo Chinic without routine blood pressure record and the other from Seattle Washington with routine blood pressure records.

The properties and the method of using ethylene are described. The Seattle model of the Gwathm y apparatus is recommended especially for objective. The advantages of ethylene include rapid induction of analgesia and anasthesia with relaxation and inthout cyanosis. The importance of avoiding cyanosis is emphasized. The use of ethylene is not followed by prostration.

The di advantages of ethylene are

I Its inflammability This is no greater than that of ether

2 Its odor The unplea natures of the ofor may be overcome by adding an agreeable scent to the gas as it passes through the mixing chamber by using a dilute mixture of ethylene and oxygen for induction or by u ing introus order and oxygen for the induction of the anasthesia and ethylene and oxygen for its maintenance.

3 Headache Thi occurs al o occasionally after

4 Nauses and comiting. Thes are u utilis

5 Irritation of the respiratory pas age. This rare but may result from prolonged re-breathing.
6 Temporary inhibition of re-piration. This

sometimes follows the administration of a concentrated mixture of ethylene oxygen following in luction with nitrous oxide cyanosis develops rapidly but a overcome by the administration of oxygin

7 Free ive oozing Thi occurs only occasion

latients with acute peritoritis do not 31 ld to

No one igent is satisfactor; in every instanc Ethylene has a definite place of its own. It does not entirely supplant nitrous oxide and ether, but on the other hand nitrous oxide and ether do not fulfill all of the requirements of anisathesia. It obstetries ethylen may be blended with other

anæsthetic agents to produce the effect de ired at the different phases For its proper blending the Seattle model of the Gwathmey apparatu 1 recommended During the part of labor when the cervix is being dilated the author has found th action of nitrous oxide and oxygen more satisfactory than that of other agents As the head comes to rest on the permeum and the pains are reinforce ! by voluntary effort a small amount of ethylene may be added to the nitrous oxide with good effect As labor progresses the anaesthetic mixture may be changed to eth) lene and ovegen only with about 15 per cent of oxygen As the head is delivered a rather concentrated mixture of ethylene and oxygen (5 to 10 per cent oxygen) may be used True anas thesia can be produced quickly with this mixture the pains terminated rapilly and extensi e lacera tions a oided. The baby cries almo t immediately after delivery

The advantages of ethylene are most striking in cases which are poor riks. When a muxture of 75 per cent ethylene and 25 per cent oxigen is u ed patients who are poor riks relax satisfactorily In a study of 165 complete anesthesa records nucleating records of the blood pressure etc. it was found that there was some straining during operation in 15 per cent of the case of the straining during operation in 15 per cent of the case of the

The youngest patient operated upon was 16 days old and the oldest 82 years host were subjected to laparotomy. There were no anasthetic fatalities or near fatalities of the sux patients who were desperate risks only two died following the operation. In the entire series of cases there were only six deaths during the convalexent period of two vects, and none of these could be attributed to the

Baumann M A Case of Death from Scopolamine (Scopol mi todesf ll) Z nt albl f Ch r 1924 li

The case reported was that of a woman 52 years old who was operated upon for harmorthousd under old with which was presented an extension and were first of the second of the second was set of the se

Autopsy revealed no organ c changes Aovocame poisoning was ruled out by the late appearance of the intoraction and by the absence of character it its symptoms of that conditions. The pantopsor could have had no more than an adjuvant affect. The conclus on was therefore drawn that death was due to respiratory paralysis caused by the scopola.

m ne
In the cases of two elderly women death occurred
also a few hours after a difficult gall stone operat on
but in these cases either oper tive shock or inhala
tion narcosis might have been responsible

On the bass of his experience the author advises caution in the use of scoploamine and recommends that it should not be used at all for small operations and for more serious operations the largest amount employed should be 4 dmgm instead of 6 dmgm SONTEA (Z).

Hillman O S Spianchnic Analgesia La et 924

Operations on the upper abdomen are attended with a high mortality chiefly because of chest complications and shock. The former are due to prolonged inhalation anaesthesia and restriction of the respiratory movements and the latter to repeated harmful stimuli passing to the centra hiervous sys tem by way of the semilunar ganglia and splanch nic nerves. It is to reduce these dangers that the author uses splanchnic analgesia.

The patient lies on his side with a pillow under the loin to prevent sagging of the spine. The first lumbar vertebra is then identified and on a level with and 7 cm external to the vertebra a cuticular wheal is raised with I per cent novocaine Through this wheal a 12 cm needle is introduced and nushed upward at an angle of about 45 degrees to the median plane so that it rests in front of the vertebra. Here 30 c cm of 1 per cent novocame are injected. The needle is then withdrawn into the subcutaneous tissues its direction being changed so that it lies along the anterolateral aspect of the second lumbar vertebra and 15 c cm of novocaine are injected The same procedure is repeated on the opposite side the splanchnic nerves and semilunar plexus being bathed by oo c cm of novocaine Collac blocking does not diminish the sensibility of the abdominal wall anæsthesia is produced either by an abdom nal or by a paravertebral field block. A first stage ether narcosis is also induced unless there is a definite contra indication to general anæsthesia

The author has used splanchine analgesia success fully in eighteen cases. He cites as its advantages that it may be employed when general amesthesia is inadvisable it is associated with quiet respiratory movements it does not cause shock and it is followed by less postoperative vomiting than the other types of anaesthesia.

The ch ef d sadvantage of this type of anæsthesia is that it requires more time and skill than other types but this is greatly outweighed by its distinct benefit to the patient

GEORGE R. McAULIFF M.D.

Labat G The Induction of Splanchnic Analgesia

Splanchine anaesthesia is applicable to surgery of the upper abdominal organs and kindeys and is to sufficie to the control of the property of the to sufficie to the antenor route or better by the postenor route by depositing the anaesthetic solution around the splanchine nerves and semiliarity agangia which lie either on the disk between twelfils dorsal and first lumbar or the first and second dorsal and first lumbar or the first and second

lumbar vertebre
The site of the posterior injection is located by identifying the lower border of the twelfit in band then selecting a point on this rostovertebral line? cm from the mid plane of the body. If the roll is difficult to outline the injection level in the thing to the body containing the spinous process with the limbar work of the process of the process of the body of the thing the process of the body of the thing the process of the body of the thing the process of the body of the thing the process of the body of the thing the process of the body of th

After the point has been selected the needle is inserted at an angle of 30 to 40 degrees for a distance of 10 to 12 cm until it is felt to glide slong the anterolateral wall of the vertebra without scratching the persosteum. If the angle is less than 30 degrees there is danger of injuring the renal pedicles or

transfiring the kidney, and if it is more than agdegrees there is danger of reaching the intervertebral foramen and entering the spinal canal. When the needle is introduced in a plane exactly transverse to the body there is no chance of wounding the renal pedicles as they lie the full height of one vertebra below the solar gangha. The pleura gener ally lies so high that there is little danger of traversing it and there is no danger of puncturing thilung

The patient is given a preliminary hypodermic injection of 1/6 gr of morphine and 1/300 gr of scopolamine one hour befor op ration and if nece sary this is repeated at the time of operation. With esite of the posterior injection 40 c cm of o 5

per cent neocaine with adrenalin are given on each side and 120 c cm are used for the anterior abdominal field block. The operation is then begin almost at once. Between the posterior and anterior anaes thetized areas le lateral zones of normal sensibility where all manipulations must be done very gently where all manipulations must be done very gently themedate unpleasant effects such as pallor cold sweats and nausea are due to a decrease in the blood pressure but are neuther common noral airming

Splanchnic anaesthesia is recommended because it is followed by a better postoperative condition less shock and les danger of pulmonary complications and because it leaves the liver and the central nervous system undisturbed

GEORGE R Mc \LLIFF M D

PHYSICOCHEMICAL METHODS IN SURGERY

POPRIORNOLOGY

Mackee G M and Andrews G C Coolidee Tube Quantitative Variati ns im J Ro 2 / 024

Cool ige and Kearsley have d monstrated that the energy output from different Cool dge tubes operated under identi al con litions shows consider able variation \ quantitative estimation was made by means of ionization the most sensitive and most accurate meth d of measuring roentgen radiation In the combined series of seventeen tubes of un versal type (broad and medium focus) the extreme difference betw en tubes v as 66 s per cent without filtration and 120 per cent ith filtrat n (3 mm of aluminum q in blunt point gap) Unfiltere i ro ntgen radiation has been employed however for many years in heavy therapeut c doses estimated by the usual practical methods and has given results that show sate factory uniformity

The authors carrie lout experiments in an attempt to ascertain whether energy variations from different universal Collige tub's can be detected by skin effects. In the e invest gations different areas of skin of a number of subjects were exposed under i lentical condition to mil I erythema and epilation I ses of filtered and unfiltered rays and ath dif I rent tubes and checks of these tubes made with

ionization measurements

The r actions varied o by slightly if at all and in each case the variation coincided with the vari ation of do age as determined by the ionization The comparative biological r actions however were not nearly as great as vould be as umed from the percentage variation of the different tubes. The ionization results obtained by tl e authors d ffered from those obtained by Coolidge nd Kearsley The latter determin d a maximum intens ty variation of 87 5 per c nt with unfiltered radiation and of only 120 per cent with a filter of a mm of aluminum. The authors obtained a maximum difference of \$7 8 per cent with unfiltered radiation and of 57 per cent with 3 mm of aluminum Possibly this difference may be explained by unavoidable inaccuracies in the determination of the ionization measurements differences in the location of the 1 nization chamber or the fact that lower oltages were used in these e periments than those used by Coolid e an I Kearsley

The auth is summarize the results of their experiments and their conclusions as follows

I Ioni at on experiments with an iontoquanti meter show considerable variation of energy output from d fferent Coolidge tubes E periments on the skin show a vari tion of

output from different Coolidge tubes. Ho e er

judging from visible skin effects alone the difference is not great

3 A difference of energy output amounting t 57 8 per cent (as estimated by ionization) rauses very little difference in the visible cutaneous reaction

4 The manufacturer should class fy therapeutic tubes according to the ionization estimation of the energy outnut

5 The indir ct technique used by dermatologists in America is the most accurate yet devised and is sufficiently rehable for practical purposes

ADOLPH HAR CAG M D

Sutherl nd C G Shad ws of Calcified Areas in the Bony Pelvis R d | gy 10 4 1 60

In the \ ray examinat on of the kidney ureter and bladder the roentgenologist encounters as le from the shadows of calculi in the urinaty teact an interesting variety of ray-opaque bodies the nature of which taxes his degnostic skill Ray-op que shad o vs in the bony pelvis outside of the bladder area are comparatively rare excluding the small concre tions that form in the veins and venous plexuses which are commonly reported as phleboliths and are evident in about 37 6 per cent of cases Such shadows have been note i in the Mayo Clinic during the past five years in only o ora per cent of the total number of examinations Mas es of foreign material in the bowel part cularly remnants of barium remaining from the enema or the ingested meal may cause shadows resembling those of calcified tumors but a r ray after thorough evacuation of the bowel con tents will reveal their true nature

The author collected fifty roentgenograms of fifty patients showing ray-opaque shadows in the bony pelvis only thirteen of the fifty patients had A c mparison of the roent been operated upo genograms with the surgical findings was made in an attempt to establish the characteristics of different types of tumors. Of the thirteen pat ents operated upon eight had had fibromata of the uterus one a fibromyoma of the left ovary with corpus hemorrhag cum of the right ovary one a partially calcified pyosalpinx containing putty like material one ovarian dermoids containing rudi mentary teeth one calcification of the ovary and one a diverticulum of the bladder containing a calculus

Wakeley C P G Some Actions of Radiations on Living Tissues B # J Su g 1924 In 135

Observation of the hands of persons working with the \ rays or radium confirmed the conclusio that with one exception radium a d X ray derma titis are ex ctly sim lar both clinically a d histo

logically. The exception is the subungual hyper keratosis seen in radium dermatiti

In experiment the author studied the eff ct of redation on the developing chick embryo and the skin of the frog ta lpole. When the irradiation was given before incubation and for everal days there after (eight days in all) its effect was inhibitory and lepended more on its quantity than on its quality. When incultion was allowed to provess for nine thours before radiation and them. Yet exposures were the controlled to be the success of the the effect extend to be the success of the state of the controlled to the success of the state of the controlled to the success of the state of the success of the state of the success of the state of the success of the state

The skin of tadpoles men aried dises of the trava as examined hitologically no changes wer noted except after the largest does when there was a slight but definite by pripriary Irradi atton in the presence of colloidal sits cau ed much

more rapid and profound changes

The destructive effect of the Vravs and the gamma rivs of radium on the endothelal lining of the blood vest of on the blood cell (esp call), the Imphorves) and on the muc s membrane of the intestines are known an i must be taken into c in sideration in outlining, treatment. The blood of persons who work with radium and the Vrays should be studied at frequent intervals.

Wakelix made hi tologic tudi alo in e eral case in which specimen of malignant neoplasms vere obta n'd before nd aft r radiation. In every cas there as a marked hibr si fier radium treat ment and in one case the ell showed sign of de

generation

No sple theory ca expla all of the phenomena lue to radiation Probabl n of the eff cts is a di turbance of the olloid I equilib um of the cell with consequent divid attent if this so car ned too far the cell may ecor r but if it exceeds necetain limits the d mag is reprirable and the intracellular enzymen then complete the desirable of the devial zeed.

CH LE II HE OCK M D

Minot G R and Spurling R G Tie Effect on the Blood of Irradi tion Especially Short Wave Length Roentgen Ray Therapy 1m J M S 0 4 1 5

The authors review the literature on the effects of a radiation on the blood of gry a bibliography of seventy eight references. All observers age of that following radiation there is a reduction in the numb of white cells see tally the lymphocytes.

The ba is of the authors study was fifty as treatments given to forty to patients. Particular attention vas paid to t enty two cases given thirty as intensive short wave I night teatments in every case the clinical diagnos was milignant neoplasm and in most instances the growth vas believed to be a carcinoma.

Leucopæn a and lymph pens were observed When short was e length wer used the changes were more rapid marked and persistent. On the average the love t count occurred on the sixth day. The leucopena usually persisted for mue days its longest duration was thirty one days. Repetition of the treatment before the leucory test have returned to and remuned at their original level for some time cau esa more pronounced und prolong of leucopenia and lymphograma than that following the first treatment.

the description of the property of the particle of the particl

At least three factors cem to influence the intensit and duration of the bloot changes with (1) the condition of the blood at the time of irradiation (2) the size intensity and character (size lengths) of the dose administer (3) and the surface irradiated. The greater the surface irradiated the greater will be the effect on the white

blood cells

While depression of the lymphatic and harm topo ette systems is undestrable it seem to occur without a detrimental effect and is off et by the benefits de ived from the irradiation. The routhors conclude that a white cell count should be m de before X riy treitment especially I a previou treatment has been given. If the v hite cells are fewer than 5 000 per cube millimeter a more complete study of the blood forming its ues should be made. Then in deciding whether or not to treat the patt in it must be determined whether the benefits of freating the lesion will more than offset the probably seriou dynage to the harmatoposete Sistem.

Critical Probability

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Stettner K. Combined Roentgen Treatment of Surgical Tuberculo is (Zur komb nert n Ro nt g nbeh ndiu g der h rutg sch n T berk 1) Dit h m d II h s h 1924 l 7

The author d cus es the results of the treatment of tuberculosis of the bones joints and soft itssues in the adult. Cachectic pati niss are first strength ened by general treatment because roentgen applications are detrimental to the weakened organ sin joints were immobilized. Wilergy was te ted to arrive at the prognosis. Marked allergy nearly at Asys indicates that the progn sis good.

The ray mg was done every three veeks first with doses from one fifteenth to one tenth the ey thema skin dose and later with stronger doses up to one fifth the erythema skin doe. To obtain h my gneuss radiation of the joints a wooden trough filed with moi t sawdu t to form a cube or rhombus of known diameter was used.

The raying was supplemented by inoculation by Pondorf or More smethod or with old tubercula Hospitalization for several weeks was necessary in a case of tuberculous of the soft parts the duration of the treatment ranged from six to right weeks when cases of tuberculous of the points it region to the construction of the points it reader from five to six months. Healing occurr d in 55 per cent of the cases of bone and just tuberculous and in 80 per cent of the cases of bone and just tuberculous and in 80 per cent of the cases of tuberculous. Case (Z)

Stenstrom W Fxp rience with a W ter Cooled Y Ray Tube for Deep Therapy J C c R

One of the first vater cooled receipen ray tubes capable of handling as much as go mix at 500 con volts was furnished the State Institute for the Study of Mal grant Disease at Benfalo N Y and has been used for deep therapy; ork there sin e the beginning of this year under the following running beginning of this year under the following running states are considered to the state of the state of the state filter. The installation running conditions and arrange ments for it attent are brightly decided.

The tube has been running as long as s x hours a day and for more than one hundred and fifty hours altogether without any change. It has never given any trouble it is easy to handle and it runs with less relative fluctu tion of voltage and current than the 8 ma high voltage Universal type tube.

Measurements with ion zation chambers have sho in that nearly the same efficitive vac length and the same d pith dose are obtained with 30 ma as with 8 ma. but the distribution of the radiation at a focus skin d time of 4 cm or more is piracticully the same for the water cooled tube as for the Universal tube and that no ma min obtained with 30 mm produce approximately the same no figen

ray radiation as 75 ma mm obtained with 8 ma Up to the present time there has been no indica cation that better results are obtained with long textaments than with short or 5.1 improvements which usually follow from one to two months litter seem to be about the same for 3 mm as for 8 mm. It has not 3ct been determined whether the clinical results will be better or worse after the above the requiring alo get time but th. oentget ray seckness immediately following the treatment is 1 s. The epithema of the skin is p oduced by a slightly when 30 mm are employed than when 8 mm are used.

ADDIATE HEATTH AND *D.**

Mitch ii W. Handley S. Cooper G. and Others Discus ion on the Clinical Re ults of Deep Y. Ray Therapy P. Roy So. M. d. Lo. d. 9.4 xvu. Sect. Ele t.o-Th. rap. 3

MITCHELL based hs remarks upon 33 cases treated during the past year Forty ei ht f these we e hopeless and forty-one wer case of po t operative recurrence. While the cures were few practically all except the cachectic patients received.

temporary benefit and rehef from pain. It appeared that the condition of cachectic patients was made worse.

HANDLEY cited three cases of failure in which some degree of succe s was expected and one or two cases in which good results were obtained when failure seemed certain. If he believes that the medium dos between that which is inadequate for an effect on the growth and that which is harmful to the patient has not yet been determined out it.

Cooper studed that dep \ ray therapy has proved more beneficial in malgnant deases has a y other non-uperature measure \ \text{Tactors that a y other non-uperature measure \ \text{Tactors that a y other non-uperature measure \ \text{Tactors that any other non-uperature measure \ \text{Tactors that any other non-uperature of the mount of meta tass the situation of the growth the blood) the nature of the neoplasm and the amount of rad ation given \ \text{The best results had been obtained in the iteraturent of get to urnary conductors \ \text{University of the conductors \text{The conductors} \ \text{Tactors many glandular or largements and carcinoma of the parotid and thy road clands:

NAOV cited the cise of a man who had been ope ated upon for the removal of a carcinomatous testicle. Later a large abdominal metastasis de veloped but disappeared under deep. Y ray the rays. Still later (one year ago) large metastasis mediatorial and were associated with pleu al effusion responded well to radiation. Today syears after his oper tion the patient is abl to work. Anox believes that rays f a le ser potecy than those der cetd on the original growth he eat timulating effect on any secondary growths they may reach. He reported a case supporting the

MORTON and WEBB b th favor the single mass: e does Morton and Finat st ted that in their opinio too much stress is being lad on po sible damage to the blood cells. Finat u es chloretone to prevent radiation as ckness.

MARTINDALE attributed the low incidence of rad ation sickness in her cases to the fact that the patients are pr pa ed in the same man er as for an abdom nal operation

TURRELL exp essed the opinion that at the meno pause deep \ ray treatment for abroid is contra and cated He belie es that small repeated d sea are less apt to 1 jure the endocrine glands

Chartes H Heacock M D

Wood F C Limitati as in the Rad otherapy of Canc r J C 924 11 56

Of late y are three has been a cactio to the p
inm m with which and non therapy as at first
received. The bleft even vide proad that the
treatment is useless. The author summarizes some
of the limitations for the medical profess on mg n
eral from the viewpoint of the radiotherapist as
follo s.

The reaction of a neoplasm depe ds upon the amount of rad ant energy that can be delivered to it There is no evidence to show that short wave lengths are more effective than the longer ones but they can be delivered to deep lesions with less injury to the superficial structures. In accessible tumors the necessary amount of radiant energy can be most easily delivered by the insertion of radium.

Some persons bear radiation baddy. Certain memoritors properties used in a regigeration of the issue a symptome of radiation sections that support of the such as properties and the such as properties of the such as properties of the cases of the classes of cachecito patients the treatment is often fatable cause of the effect of sexitated radiation on a already fattgued and poorly functioning bone mar own. In these cases of neurotic patients only light radiation should be given for its pall attive and psychic effect.

3 Radiotherapy is limited by the site of the tumor in relation to other important structures of the body For example it is difficult to radiate a cancer of the stomach without inflicting serious in jury on the liver pancreas adrenal or sympathetic system

4. The biology of the tumor influences the results of radiotherapy. While a few general rules may be d awn regarding radiosensitivity it is impossible to say definitely what the response of a given tumor will be. There is no such entity as a cancer or a sar coma dose therefore at the pre-ent time all radio therapy is largely empirical.

In conclusion Wood states that while surgery should be the treatment in all cases of operable malignant tumors it is just as emphalically true that radiation therapy should be the method of choice for all cases of moperable accoplasms as partial surgery as once than useless. The present most assured to the state of the proposed and protoperative prophylicite treatment. The results are offens to good that we may look forward vith confidence to greater ache ements in this direction.

CLAMEST II IEANON M D

Cameron A T and McMillan J C Roentgen Ray S ckness and Chloride Retention Cs a din M As J 1924 6 9

Roentg n ray therapy in massive doses produce a definite lowering of urine exerction and a definite chloride retention when the epigastrium is rayed Radiation of other parts of the body produces a less marked effect

When epigastric radiation is gi en in ca es in which the previous chloride retention was low the tendency to sickness i greater other factors being equal

Prehminary feeding with sodium chloride daily to raise the chloride excretion to 10 gm or more per day before treatment is begun and continued feeding during the treatment prevents or lessens the sick

The blood chlorides are not nyamably affected but sometimes are decreased

Several illustrative cases are cited

CHARLES H HEACOCK, M.D.

MISCELLANEOUS

Von Schroetter H Recent Studies on the Effects of Light and Heat on the Organism A Critical Review (Neutre Arbe ten uebe di U1 kung der Light und Waermeste hien auf den O gam mus Ar 18ch s R feral) St able the ap e 1923 xv1 96

Sonne demonstrated that the heating of the blood in the subcultaneous tissues is caused chiefly by the visible light and that the ultraviolet ravs are ab sorbed by the superficial vascular layers of the skin Therefore the thermic effects of these two types of ray differ according to the depth of the layer

The results obtained in animal from a light bath (a rise in the general temperature of as much as 2 degrees) are applicable to man only when the nor mal heat regulating apparatus is disturbed

In judging an isolated effect it must be borne in mind that 35 per cent of the visible light and of the inner infa red is lost by reflection while the outer infa red is entirely absorbed. Some ascribes a narrier and in entirely absorbed. Some ascribes a ban to the chemical action of the ultraviolet rays be railed as much as 48 per cent and the blood tempera true increased the result is an increase in the cellular processes a weakening of the toxin and antigenativity and the production of immunizing material as in fever but without an increase in the general interval and the production of immunizing interval and long apple claim of high claim of a long apple claim of high caused a partial destine ton of diphtheria towns and increased the production of typits usagelutions.

In contradistinction to these and similar reports made by Hansen the author is of the opinion that the ultraviolet rays are the most important biologically but are essentially improved in their action hen they are combined with the thermic rays Accordingly, sunlight offers the very best mit time for rays. This is nearest approximated by the Koh

lenbogen lamp
Richet Jr reported that insects died when placed
in a glass globe and when they were subjected for
a short time, to a dark day have of

a short time to a dark dry heat of from 40 to 42 degrees C

Young animals and animals previously rayed show receiver restance and this receivers as he have

greater re istance and this resistance can be trans mitted by means of blood transfusion. Immunization can be obtained by gradual and continued exposure. In unrayed animals high temperature leucopann may be set up by injecting the blood of raved animals.

According to Richet humoral reactions are factors in the causation of heatstroke. When these occur in fever following an infectious disease they may be looked upon as the natural reaction of the body and are to be combated only when they are long continued and the temperature rises above 8.5 degrees C.

The destructive results of overheat ng should be treated with camphor and caffeine not by ether morphine adrenalin or cola Diett. (Z)

Dahlfeldt C Rational Do age of the Stimulating
Ultra iolet Rays (Z r r ti nell n Dosieru g d r
ultra ! tt n Reizstr h!) St ahl ther p 1923
1 75

The d sag of ultraviolet light coording to time and distance that has been employed up to the present time in no way micts the need for a gener ally useful dosage Because of the consideration that must be given to dispersion and to the differ ence in the efficiency of the same source of light and of light from different lamps, this requires a complicated reckoning. To establish uniformity of dos age the author proposes to take the relative intensity as a number she ing how many times strong r or weaker the intensity becomes when under sim lar conditions the distance is altered from 100 cm to some other d tance. The product of the number and the time of radiation gives the physical do e The relative intensity I (corresponding to a distance of 100 cm) applied for one minute makes one minute unit (WV). The number of these minute units shows how many m nutes we must irradiate

which is given by an irradiation of another relative int n ity and another len th of time. The que too as to hether or not the number of minute units truns parallel vith the degree of skill reaction has not as yet be on determined absolutely. Unl ke Juenging the author holds that only slight und moderate evithemata can be compared accu

at a d stance of 100 cm in order to obtain the dose

rat by Under conditions which elim nated so far as possible all technical source of error a companism was made of small skin fields lying together into form of a square of which those situated diagonally received the same dose. When the minute unit w sunchanged the skin react o i was the same irrespect the of the time of radiation. Such observations must extend over several days as in severe ety the mata the final of gree of reactions is established only

afte from thee to fived 3
For general radiation in practice relait e doses
of / 1 2 3 and 4 at a distance of 14 100 70 58
and 50 cm are suffered; and for local tradiation
rel tive intensities of 10 0 30 and 40 at a distance
of 32 22 78 and 6 cm are indicated Etrors up
to 0 per cent in the time of ad ation are negligible
the hdd fir ence in dipersion with the quartz light
which according to Domo is negligible up to 18
the control of the distance of the control of the control
transity according to the desired number of intuit
units in order to ke p the radiation time from being
too shift of to lone.

To describe the new dosage further the reaction unt of the kin is defined as the relation between physical dosage and skin sensiti vity. With the said a patter in from six to twelve small fields somewhat lateral to the umblucus were tradated under the same external cultions with increasing dosage that the same cateral cultions with increasing dosage that the same cateral cultions with increasing dosage to the same cateral cultions with increasing dosage that the same cateral cultions with the same cateral cultions with increasing dosage that the same cateral cultions with the same cateral cultions with the same cateral cultions and the same cateral cultions with the same cateral cultions with the same cateral cultions and the same cateral cultions with the same cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions and the same cateral cultions are cateral cultions are cateral cultions and cateral cultions are cateral cultions and cateral cultions are cateral cultions are cateral cultions and cateral cultions are

duction of the reaction unit is called Bio. On the basis of studies of the sens trivity of the skin the author gives as a primary dose for the anterior surface of the body it, bio and as a primary dose for the posterior surface t bio. In order to draw a correct conclusion regarding the cryshems changes in general irrid. Iton a small control field is sometimes to the initial dose is brief:

Because of its certainty the new method has been found of considerable value in stimati g the effects of ultraviolet light Dietz (G)

G uvain Sir H J Popular Lecture on the Sun Cure Br t M J 9 4 n 234

The author di cusses the dangers of treatment by beliotherapy rather than its advantages and ex plains the action of sunlight. He classifies the dangers in two groups (1) those due to careles ness or ignorance and (2) those due to unsuitability of the subject.

The most obvious dangers due to carelessness or ignorance are sunstroke heatstroke and sunburn Sunstroke is produced by local heating of the brain and general he ting of the body while heatstroke is caused wholly by general heating of the body Because the circulation of the blood is not sufficient to distribute the radiant heat received locally the head and spine must be protected. Heatstroke is the result of fat que of the sweating mechanism on which in hot atmospheres the heat regulation of the body depends. It can be warded off by artificial sweating and by wetting the patient with a spray and cooling him with a fan Sunhurning may c n tribute to the onset of sunstroke or heatstroke by making the subject ill through the absorption of the produ ts of damaged tissues Sunburn should alv ays be avoided

Dangers due to unsuitability of the patie 1 are more difficult to describe and in some cases can be ascertined only by complicated tests. Persons who do not become pigmented should be exposed only under medical care. Albinos are not suitable for sour treatment. They some the aged and min and persons sufficiently you sun treatment only by those expect in this ky of therapy.

Certain preautions are always necessary. The feet should be exposed first and it rest of the dependency and the rest of the dependency and the rest of the pratter before the end of a fortinght. Eventually, a total exposure of from two to three hours a day way be allowed but the head should always be prot ted. The patient should never be too hot to cold. Blastering should be as ouded an desposure should be stopped short of fatugue and followed by a feeling of will be being and be it faration.

Properly planned sunlight treatment may be of benefit in three ways

I By its psychological effect. Su light ha a powerful stimulating and tonic action ten ling to b nish mental dep ess on 2 By its local or direct effect. Sunlight has a powerful direct bactericidal action a property possessed especially by the ultravolet rays. How ever as these rays have very little penetrating power their bactericidal action is limited to organisms on the surface of the body.

3 By its indirect or remote effect. Ultravolet rays uncrass the power of the blood to destroy pathogenic organisms favor the repair of diseased bony tasses by stimulating calcium metabol problog life in cases of disease due to vitamis deficiency and cause pumentation of the skin. The stable rays of longer wave length have a greater penetrative power pass through the skin and are absorbed by the blood their energy being converted into the t. The units red rays which have a still greater penetrative power produce local congestion and thermal effects were produce local congestion and thermal effects were produce local congestion and thermal effects were reduced.

In conclusion Gauvain says that in heliotherapy we have a potent method of stimulating cells of profoundly modifying the properties of the cells composing the body and of arre ting or preventing disease Euric Pointsuff M D

Schwartz R P Heliothe apy B in M & S J

Thirty three years have not produced universal confidence in the use of tuberculin in the treatment of any form of tuberculosis

Heliotherapy has clinically proved the indications for its use on the basis of general changes the prevention of deformity and the restoration of function in the affected joint providing fundamental orthonogic recoursements are met

High altitudes have a beneficial effect but excellent results are obtained at the sea shore. At either level, clean clear art 1 and c. its Systematic graduated exposure of the entire body except the head with careful observation of the patient as the period and extent is increased seems to be of fundamental importance

Clinical observations and laboratory investigations at present favor the opinion that the therapeutic value of the solar spectrum is due not to the effect of any one part but to the combined effect of the entire spectrum

Artificial sources of light should not be accepted until it is provide that they reproduce the solar spectrum in extent and intensity

During the acute stage the local lesion in the bone or soint should be completely immobilized Appara tus is indicated but must not interfere vith insola Plaster of Paris jackets and casts should never be used in the treatment of tuberculosis of joints but the affected joints should be kept immo bilized during the entire period of the scute inflam mation and then freed from fixation gra fually. The amount of motion attempted should be determined by the amount of lo al reaction Long continued immobilization is responsible in a large measure for the loss of function of the joint which so frequently Tuberculous abscesses should be drained Sinuses and ulcers should be unbandaged for twelve hours each day and subsequent treatment should favor the restoration of function

Surgery must be looked upon as occasionally essential in osteo articular tuberculosis but its wise use depends upon knowing when conservative measures have reached their full potentiality in the particular case

Heliotherapy combined with rest in bed fresh air good food etc has arrested the disease process in about 95 per cent of cases of joint tuberculosis

CARL I CLASIEL M D



HOSPITALS MEDICAL EDUCATION AND HISTORY

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Red (toon from a bits surface con titutes a seriou difficulty which ha increa ed as the u e of artificial plit has talk in the place of davight. While a white operating room uggests cleanin a san a sepi and ha a pla ing aspect it he is found confined to any his objectally in orrect. Who will be used to be u

physiological) As the operating room 1 merely a setting for the patient and the field of operation, the physiological point of view must predominate

The duff cultues pre ented by the feld of operation are there silumnation real from and color fatigue. As operation are to lay only rarely, performed by the exclusive us of daylight the problem of supplying daylight for the op ratime room has pated. The operating room may as velbe in the basement of the building. The ordinary Mazda hit with yellow may be than the socialed daylight building.

Maximum illumination may be obtained and rection and color fatigue may be overcome by employing the color is hich 1 complementary to the operative field a definite blush green. The color of the operative field has been determined as equal to about 60 per cent oxygenation (oxyhemoglobino meter Higg). Therefore the recommendation 1 made that the floor wainstoing thing and furniture of the operating room and all draperies gown gauze the boff the color.

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